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OM nucleic - nucleic search, using sw model

Run On: November 21, 2002, 03:44:44 ; Search time 288 Seconds
(without alignments)
117.292 Million cell updates/sec

Title: us-09-716-320-3
Perfect score: 15
Sequence: 1 tccatggtgctcact 15

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2185239 seqs, 1125999159 residues

Total number of hits satisfying chosen parameters: 2390332

Minimum DB seq length: 0
Maximum DB seq length: 100

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : N_Geneseq_101002: *
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4: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1983.DAT: *
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9: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1988.DAT: *
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19: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1998.DAT: *
20: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1999.DAT: *
21: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA2000.DAT: *
22: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA2001A.DAT: *
23: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA2001B.DAT: *
24: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA2002.DAT: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	15	100.0	15	AA290403	Phosphorothioated
2	15	100.0	19	AAF98894	Immunostimulatory
3	15	100.0	19	ABL38703	Immunostimulatory
C 4	15	100.0	24	AAQ52043	Breast cancer spec
C 5	15	100.0	70	AAH80767	Promoter region of
6	14	93.3	15	AAV40434	US-1 antisense oli
7	14	93.3	51	AAI75566	Human silent SNP c
C 8	13.4	89.3	24	AAV22685	PCR primer HN40 us
C 9	13.4	89.3	29	AAS09199	PCR primer #1 used

10	13	86.7	14	16	AAQ92762	c-erbB-2 antisense
11	13	86.7	16	19	AAV48736	ErbB-2 gene antise
C 12	13	86.7	19	21	AAA53776	Forward primer for
C 13	13	86.7	19	22	AAI15845	Human HER-2 ECD CO
C 14	13	86.7	19	24	AAI32531	HER-2 extracellular
15	13	86.7	20	20	AAV84090	PCR primer MTL(P)
C 16	13	86.7	20	22	AAV00677	Human consensus se
17	13	86.7	20	22	AAF26607	Maize metallothion
18	12.4	82.7	20	21	AAA74062	Reverse PCR primer
C 19	12.4	82.7	22	20	AAV08115	Primer Vbeta5 for
C 20	12.4	82.7	24	24	ABN83663	Gamma-glutamylcyst
C 21	12.4	82.7	47	20	AAZ01091	Probe for human PG
C 22	12.4	82.7	50	22	AAI77430	Human silent SNP c
23	12.4	82.7	51	22	AAI75567	Human silent SNP c
C 24	12.4	82.7	51	22	AAI77426	Human silent SNP c
C 25	12.4	82.7	51	22	AAI77427	Human silent SNP c
C 26	12.4	82.7	51	22	AAI77428	Human silent SNP c
27	12.4	82.7	60	24	ABN33270	Human spliced tran
C 28	12.4	82.7	65	24	ABN54380	Mouse spliced tran
29	12.4	82.7	98	24	ABN60554	Human cancer relat
C 30	12	80.0	22	19	AAV17078	Oligonucleotide 6
C 31	12	80.0	27	19	AAV36673	Nucleotide sequenc
C 32	12	80.0	53	19	AAV36662	Nucleotide sequenc
33	12	80.0	60	24	ABN48619	Human spliced tran
C 34	12	80.0	62	19	AAV36663	Nucleotide sequenc
35	12	80.0	65	24	ABN54104	Mouse spliced tran
36	12	80.0	65	24	ABN54738	Mouse spliced tran
37	12	80.0	97	19	AAV17076	Oligonucleotide 4
C 38	11.8	78.7	19	24	AAI32361	Human LSG 414885 e
39	11.8	78.7	20	21	AAA12081	Human ICAM-1 antis
40	11.8	78.7	20	24	ABL45607	Human chromosome 2
C 41	11.8	78.7	22	21	AAA52945	Mouse EphA4 gene P
42	11.8	78.7	28	21	ABK12010	Thrombopoietin rel
43	11.8	78.7	32	21	AAI52982	HCV-la E2 forward
44	11.8	78.7	33	24	ABL55542	Haploid sperm cell
C 45	11.8	78.7	42	21	AAA12095	Human ICAM-1 DNA f

ALIGNMENTS

RESULT 1
AAZ90403
ID AAZ90403 standard; DNA; 15 BP.
XX
AC AAZ90403;
XX
DT 30-MAY-2000 (first entry)
XX
DE Phosphorothioated ASO directed against HER-2 gene.
XX
KW Radiation; drug resistance; HER-2; raf-1; radioresistant; tumour;
KW cancer; restenosis; osteoarthritis; neurological; pre-eclampsia;
KW intestinal abnormality; antisense; ss.
XX
OS Homo sapiens.
XX
PN US6027892-A.
XX
PD 22-FEB-2000.
XX
PF 16-DEC-1997; 97US-0991830.
XX
PR 30-DEC-1996; 96US-0034160.
XX
PA (CHAN/); CHANG E H.
XX
PI (PIRO/); PIROLLO K F.
XX
PI Chang EH, Pirollo KF;
XX
DR US-1 antisense oli
XX
PT WPI; 2000-194828/17.
Reducing radiation or drug resistance in a cell comprises introduction

PT of antisense nucleic acid for treating or diagnosing cancer,
PT restenosis, osteoarthritis, neurological and intestinal abnormalities
PT and pre-eclampsia -
XX
PS Claim 4; Column 9; 18pp; English.
XX
CC The invention provides a method for reducing radiation or drug resistance
CC of a cell, in vitro, which does not overexpress HER-2 or raf-1 genes.
CC The method comprises introducing to the cell an antisense nucleic acid
CC comprising a segment complementary to HER-2 or raf-1. The method is
CC useful for increasing drug and radiation sensitivity in a cell,
CC particularly in the treatment of radioresistant tumours. The antisense
CC nucleic acids are useful for treating or diagnosing cancer, restenosis,
CC osteoarthritis, neurological and intestinal abnormalities and
CC pre-eclampsia. The present sequence represents a phosphorothioated
CC antisense oligo (ASO) directed against HER-2 gene.
XX
SQ Sequence 15 BP; 2 A; 5 C; 3 G; 5 T; 0 other;

Query Match 100.0%; Score 15; DB 21; Length 15;
Best Local Similarity 100.0%; Pred. No. 72;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCACT 15
Db 1 TCCATGGTGCTCACT 15

RESULT 2
AAF98894
ID AAF98894 standard; DNA; 19 BP.
XX
AC AAF98894;
XX
DT 12-JUN-2001 (first entry)
XX
DE Immunostimulatory nucleic acid #10.
XX
KW Vaccine; cytostatic; virucidal; bactericidal; fungicidal; anti-parasitic;
KW immunostimulatory; tumour; viral infection; bacterial infection;
KW fungal infection; parasitic infection; cancer; asthma;
KW infectious disease; allergy; immune deficiency; phosphorothioate; ss.
XX
OS Synthetic.
XX
PN WO200122972-A2.
XX
PD 05-APR-2001.
XX
PF 25-SEP-2000; 2000WO-US26383.
XX
PR 25-SEP-1999; 99US-0156113.
PR 27-SEP-1999; 99US-0156135.
PR 23-AUG-2000; 2000US-0227436.
XX
PA (IOWA) UNIV IOWA RES FOUND.
PA (COLE-) COLEY PHARM GMBH.
XX
PI Krieg AM, Schetter C, Vollmer J;
XX
DR WPI; 2001-273485/28.
XX
XX Vaccinating against tumors, infectious diseases, allergies and asthma
PT using immunostimulatory Py-rich and TG nucleic acids ;
PT
XX
PS Disclosure; Page 38; 338pp; English.
XX
CC The present invention relates to a method for stimulating an immune
CC response. The method comprises administering an immunostimulatory nucleic
CC acid to a non-rodent subject in sufficient quantity to stimulate an
CC immune response. The present sequence is one such immunostimulatory
CC nucleic acid. The immunostimulatory nucleic acids can be pyrimidine rich
CC (py-rich) or thymidine (T) rich. The method is used to vaccinate subjects

CC against tumour antigens, viral antigens (e.g. herpesviridae, retroviridae
CC and/or orthomyxoviridae), bacterial antigens (e.g. toxoplasma,
CC haemophilus, campylobacter, clostridium, Escherichia coli and/or
CC staphylococcus), fungal antigens and/or parasitic antigens. The method is
CC also useful for preventing cancer, asthma, infectious disease, allergy or
CC immune deficiency. The present sequence can also be used to redirect a
CC Th2 to a Th1 immune response and to activate immune cells.
CC Note: the present sequence may have a phosphorothioate backbone.
XX
SQ Sequence 19 BP; 3 A; 6 C; 5 G; 5 T; 0 other;

Query Match 100.0%; Score 15; DB 22; Length 19;
Best Local Similarity 100.0%; Pred. No. 74;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCACT 15
Db 4 TCCATGGTGCTCACT 18

RESULT 3
ABL38703
ID ABL38703 standard; DNA; 19 BP.
XX
AC ABL38703;
XX
DT 16-APR-2002 (first entry)
XX
DE Immunostimulatory nucleic acid SEQ ID NO: 66.
XX
KW Antibody-induced cell lysis; cancer; immunostimulatory; CD20;
KW angiogenesis; metastasis; cytostatic; phosphorothioate backbone; ss.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT modified_base 1..19
FT /*tag= a
FT /mod_base= OTHER
FT /note= "phosphorothioate backbone"
XX
PN WO200197843-A2.
XX
PD 27-DEC-2001.
XX
PF 22-JUN-2001; 2001WO-US20154
XX
PR 22-JUN-2000; 2000US-213346P.
XX
PA (IOWA) UNIV IOWA RES FOUND.
XX
PI Weiner G, Hartmann G;
XX
DR WPI; 2002-154611/20.
XX
XX Treating or preventing cancer, such as basal cell carcinoma, comprises
PT administering immunostimulatory nucleic acids that induce expression of
PT cell surface antigens and antibodies to a subject having or at risk of
PT developing cancer -
XX
PS Disclosure; Page 11; 312pp; English.
XX
CC The present invention relates to methods for treating or preventing
CC cancer, involving administering to a subject having or at risk of
CC developing cancer immunostimulatory nucleic acids that induce expression
CC of cell surface antigens and antibodies. The methods are useful for
CC treating or preventing cancer such as basal cell carcinoma, bladder
CC cancer, bone cancer, brain and central nervous system (CNS) cancer,
CC breast cancer, cervical cancer, colon and rectum cancer, connective
CC tissue cancer, oesophageal cancer, eye cancer, kidney cancer, larynx
CC cancer, leukaemia, liver cancer, lung cancer, Hodgkin's lymphoma,
CC non-Hodgkin's lymphoma, melanoma, myeloma, oral cavity cancer, ovarian
CC cancer, pancreatic cancer, prostate cancer, rhabdomyosarcoma, skin

CC cancer, stomach cancer, testicular cancer, and uterine cancer. The
CC present sequence is an immunostimulatory oligonucleotide described in
CC the exemplification of the invention.
XX
SQ Sequence 19 BP; 3 A; 6 C; 5 G; 5 T; 0 other;

Query Match 100.0%; Score 15; DB 24; Length 19;
Best Local Similarity 100.0%; Pred. No. 74;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCACT 15
DB 4 TCCATGGTGCTCACT 18

RESULT 4
AAQ52043/c
ID AAQ52043 standard; RNA; 24 BP.
XX
AC AAQ52043;
XX
DT 26-MAY-1994 (first entry)
XX
DE Breast cancer specific mRNA ribozyme cleavable nucleotide (159).
XX
KW Multiple drug resistance; mdr-1; ribozyme; membrane protein; liver;
KW resistance; chemotherapeutic agent; colchicine; doxorubicin; colon;
KW actinomycin D; vinblastine; small intestine; kidney; adrenal gland;
KW adenocarcinoma; bowel; transformed phenotype; promyelocytic leukemia;
KW human; chronic myelogenous leukemia; CML; follicular lymphoma;
KW B-cell acute lymphocytic leukemia; breast cancer; colon carcinoma;
KW neuroblastoma; lung cancer; genetic drift; mutation; hammerhead motif;
KW hairpin; hepatitis delta virus; group I intron; RNaseP, ss.
XX
OS Homo sapiens.
XX
PN WO9323057-A.
XX
PD 25-NOV-1993.
XX
PF 13-MAY-1993; 93WO-US04573.
XX
PR 14-MAY-1992; 92US-0882822.
PR 14-MAY-1992; 92US-0882885.
PR 26-AUG-1992; 92US-0936110.
PR 26-AUG-1992; 92US-0936421.
PR 26-AUG-1992; 92US-0936422.
PR 26-AUG-1992; 92US-0936531.
PR 26-AUG-1992; 92US-0936532.
PR 07-DEC-1992; 92US-0987131.
PR 19-JAN-1993; 93US-0006122.
PR 19-JAN-1993; 93US-0008910.
XX
PA (RIBO-) RIBOZYME PHARM INC.
XX
PI Draper KG, Thompson JD;
XX
XX WPI; 1993-386203/48.
DR
XX
PT New enzymatic RNA molecules (ribozymes) - which cleave mRNA
PT associated with tumours or mRNA expressed from gene encoding
PT multiple drug resistance
XX
PS Claim 3; Fig 8; 69pp; English.
XX
CC The sequences given in AAQ51825-2266 represent areas of mRNAs which are
CC associated with development or maintenance of chronic myelogenous
CC leukemia (CML), promyelocytic leukemia, Burkitt's lymphoma, or
CC acute lymphocytic leukemia, follicular lymphoma, B-cell acute
CC lymphocytic leukemia, breast cancer, colon carcinoma, neuroblastoma
CC and lung cancer. The full length mRNAs containing these target
CC sequences, encode aberrant cellular proteins which are able to control
CC cellular proliferation and are directly linked to a leukemic

CC phenotype. These target sequences are identified by the ribozyme of
CC the invention. The ribozymes is formed in a hammerhead motif, but may
CC also be formed in the motif of a hairpin, hepatitis delta virus, group
CC I intron or RNaseP-like RNA. These ribozymes may be used to inhibit
CC the development or expression of a transformed phenotype in man and
CC other animals by modulating expression of the corresponding gene.
CC Cleavage of target mRNAs expressed in pre-neoplastic and transformed
CC cells elicits inhibition of the transformed state. Multiple drug
CC resistance (mdr-1) mRNA specific ribozymes remove the mechanism of
CC drug resistance used by transformed cells and thus enhances drug
CC therapies for tumours. The ribozymes may also be used to study
CC genetic drift and mutations within cells.
XX
SQ Sequence 24 BP; 6 A; 7 C; 8 G; 3 U; 0 other;

Query Match 100.0%; Score 15; DB 14; Length 24;
Best Local Similarity 100.0%; Pred. No. 76;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCACT 15
DB 21 TCCATGGTGCTCACT 7

RESULT 5
AAAX80767/c
ID AAAX80767 standard; DNA; 70 BP.
XX
AC AAAX80767;
XX
DT 26-OCT-1999 (first entry)
XX
DE Promoter region of HER-2 DNA target sequence.
XX
KW HER-2; c-erb-B2; target sequence; antisense molecule; HERMYC1; HERMYC2;
KW HERMYC1R; HERMYC2R; breast cancer; c-myc; promoter region; HER 5';
KW topological linkage; padlock DNA; malignancy; metastasis; tumour;
KW transcription factors; gene therapy; cultured cell; amplification;
KW antisense technology; therapeutic modulation; ss.
XX
OS Homo sapiens
XX
FH Key Location/Qualifiers
FT misc_binding 6..20
FT /*tag= a
FT /bound_moiety= "HERMYC1 or HERMYC1R antisense molecule"
FT /note= "Forms a duplex in the presence of HERMYC1 in
FT AAAX80768 or HERMYC1R antisense molecule in AAX80770"
FT 37..50
FT /*tag= b
FT /bound_moiety= "HERMYC2 or HERMYC2R antisense molecule"
FT /note= "Forms a duplex in the presence of HERMYC2 in
FT AAAX80769 or HERMYC2R antisense molecule in AAX80771"
XX
PN WO9909045-A1.
XX
PD 25-FEB-1999.
XX
PF 20-AUG-1998; 98WO-US17268.
XX
PR 20-AUG-1997; 97US-0056742.
XX
PA (SOMA-) SOMAGENICS INC.
XX
PI Johnston BH, Kazakov SA, Kisch KO;
XX
DR WPI; 1999-228889/19.
XX
PT A new antisense molecule which topologically links to target mRNA
XX Example 5; Fig 8; 134pp; English.
XX
CC The present sequence is the 5' promoter region of HER-2 oncogene, that

backwards sequence
target of ribozyme ??

102 ant
any patient ??

CC undergoes genetic alterations along with c-myc gene and is associated
CC with aggressive breast cancer and poor prognosis. Overexpression of
CC HER-2 gene has been shown to enhance malignancy and metastasis.
CC Repression of HER-2 in mouse tumours leads to suppression of tumour
CC growth and longer life of the animal. This can be done by using padlock
CC DNAs, HERMYC1, HERMYC1R, HERMYC2 and HERMYC2R, that target a G rich
CC sequence in the promoter region. It inhibits binding of transcription
CC factors. This sequence can be used as a target sequence in antisense
CC technology for therapeutic modulation of gene expression in cultured
CC cells and whole animals, for gene function analysis and target
CC validation for gene therapy and for the detection and amplification of
CC nucleic acids.

XX
SQ Sequence 70 BP; 6 A; 25 C; 26 G; 13 T; 0 other;

Query Match 100.0%; Score 15; DB 20; Length 70;
Best Local Similarity 100.0%; Pred. No. 85;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCACT 15
|||||
Db 28 TCCATGGTGCTCACT 14

RESULT 6
AAV40434
ID AAV40434 standard; DNA; 15 BP.
XX
AC AAV40434;
XX
DT 28-SEP-1998 (first entry)
XX
DE US-1 antisense oligonucleotide used to down regulate ERBB2 oncogene.
XX
KW Antisense oligonucleotide; down regulate; erbB-2; oncogene;
KW tyrosine kinase; breast cancer; radioisotope; hybridisation; probe;
KW US-1; US-3; US-4; US-5; UT-1; US-D; SC-3; TRACER; ss.
XX
OS Synthetic.
OS Homo sapiens.
XX
PN WO9820168-A1.
XX
PD 14-MAY-1998.
XX
PF 03-NOV-1997; 97WO-US20910.
XX
PR 04-NOV-1996; 96US-0740821.
XX
PA (UYDU-) UNIV DUKE.
XX
PI Inglehart JD, Marks JR, Vaughn JP;
XX WPI; 1998-286977/25.
DR
XX
PT Antisense oligonucleotides that down regulate the erbB-2 oncogene -
PT useful to inhibit ERBB2 tyrosine kinase receptor expression in
PT cancer cells to treat epithelial cell, breast, ovarian, lung or
PT colon cancer
XX
PS Example 6; Page 15; 31pp; English.
XX
CC The antisense oligonucleotides AAV40432-V40439 were used to down
CC regulate the erbB-2 oncogene. This oncogene codes for a 185kD tyrosine
CC kinase linked transmembrane protein which in 30-50% of primary breast
CC cancers is overexpressed. The oligonucleotides are able to inhibit the
CC overexpression of ERBB2 tyrosine kinase receptor in a cell, which can be
CC done by targeting the antisense oligonucleotides to the erbB-2 oncogene.
CC By labelling the oligonucleotides with, for example, a radioisotope,
CC they can also be used as hybridisation probes to detect the ERBB2 gene.
CC The oligonucleotides were designated the following names, followed by
CC the location in the erbB-2 gene that they target: US-1 (166-180); US-3
CC (160-174); US-4 (173-187); US-5 (178-192); UT-1 (151-165); US-D

CC (US-1 scrambled control); SC-3 (US-3 scrambled control); TRACER
CC (fluoresceinated tracer). It was found that all of the oligonucleotides
CC (apart from the controls) inhibited the erbB-2 protein, however with
CC varying degrees of effectiveness. US-3 and UT-1 were identified as
CC being the most efficient oligonucleotides at inhibiting erbB-2. The
CC oligonucleotides are useful in vivo to treat cancer (especially
CC epithelial cell, breast, ovarian, lung or colon cancer) in a human or
CC other animal, especially when the cancer is characterised by cells that
CC overexpress the ERBB2 tyrosine kinase receptor.

XX
SQ Sequence 15 BP; 2 A; 6 C; 3 G; 4 T; 0 other;

Query Match 93.3%; Score 14; DB 19; Length 15;
Best Local Similarity 100.0%; Pred. No. 2.6e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCAC 14
|||||
Db 2 TCCATGGTGCTCAC 15

RESULT 7
AAI75566
ID AAI75566 standard; DNA; 51 BP.
XX
AC AAI75566;
XX
DT 09-NOV-2001 (first entry)
XX
DE Human silent SNP containing nucleic acid SEQ:2507.
XX
KW Human; single nucleotide polymorphism; SNP; genome; gene therapy;
KW protein therapy; vaccine; probe; diagnostic assay; detection;
KW quantitation; restorative therapy; polymorphic; ds.
XX
OS Homo sapiens.
XX
PN WO200140521-A2.
XX
PD 07-JUN-2001.
XX
PF 30-NOV-2000; 2000WO-US32758.
XX
PR 30-NOV-1999; 99US-0168138.
PR 29-NOV-2000; 2000US-0726173.
XX
PA (CURA-) CURAGEN CORP.
XX
PI Shimkets RA, Leach M;
XX WPI; 2001-356160/37.
DR
XX
PT Polymorphic nucleic acid sequences, useful in genetic testing and
PT therapy -
XX
PS Claim 1; Page 818; 2653pp; English.
XX
CC AAI73060 to AAI79867 represent isolated human polymorphic polynucleotide
CC sequences (I), which contain single nucleotide polymorphisms (SNPs).
CC AAM53114 to AAM53329 represent peptides related to human polymorphic
CC polynucleotide sequences. The sequences can be used in gene and protein
CC therapy, and in vaccine production. (I) and the polypeptides encoded by
CC them may be used in the prevention, diagnosis and treatment of diseases
CC associated with inappropriate expression of polymorphic polypeptides.
CC For example, (I) may be used to treat disorders by rectifying mutations
CC or deletions in a patient's genome that affect the activity of
CC polypeptides by expressing inactive proteins or to supplement the
CC patients own production of polypeptide. Additionally, (I) and its
CC complementary sequences may also be used as DNA probes in diagnostic
CC assays to detect and quantitate the presence of similar nucleic acids
CC in samples, and therefore which patients may be in need of restorative
CC therapy. The polypeptides encoded by (I) may be used as antigens in the
CC production of antibodies specific for polymorphic polypeptides. The

CC antibodies may also be used to down regulate expression and activity.
CC The antibodies may also be used as diagnostic agents for detecting the
CC presence of polymorphic polypeptides in samples.
XX
SQ Sequence 51 BP; 7 A; 14 C; 15 G; 15 T; 0 other;

Query Match 93.3%; Score 14; DB 22; Length 51;
Best Local Similarity 100.0%; Pred. No. 2.9e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 CCATGGTGCTCACT 15
Db 17 CCATGGTGCTCACT 30

RESULT 8
AAV22685/c
ID AAV22685 standard; DNA; 24 BP.
XX
AC AAV22685;
XX
DT 20-JUL-1998 (first entry)
XX
DE PCR primer HN40 used to amplify ErbB-2.
XX
KW ErbB-2 protein; vaccine; T-cell damage; activation; T-cell; treatment;
KW prevention; viral disease; cancer; autoimmune disorder; PCR primer; ss.
XX
OS Synthetic.
XX
PN WO9809650-A1.
XX
PD 12-MAR-1998.
XX
PF 05-SEP-1997; 97WO-JP03123.
XX
PR 06-SEP-1996; 96JP-0236937.
XX
PA (MITU) MITSUBISHI CHEM CORP.
XX
XX Nakamura H, Shiku H, Sunamoto J;
PI WPI; 1998-193326/17.
XX
DR Vaccine preparation comprises antigen and hydrophobic polysaccharide
PT - e.g. mannan containing sterol groups for treating, e.g. cancer
PT
XX
PS Example 1; Page 9; 27pp; English.
XX
CC PCR primers AAV22685-86 are used to amplify DNA encoding ErbB-2
CC proteins. The specification describes a vaccine preparation that
CC comprises an antigen and, optionally, a hydrophobic polysaccharide (HPS)
CC optionally as a composite. The antigen is a protein, such as ErbB-2 class
CC 1-9 proteins, which initiate T-cell damage. The vaccine activates T-cells
CC and is useful for the treatment and prevention of viral diseases, cancer
CC and autoimmune disorders.
XX
SQ Sequence 24 BP; 6 A; 6 C; 7 G; 5 T; 0 other;

Query Match 89.3%; Score 13.4; DB 19; Length 24;
Best Local Similarity 93.3%; Pred. No. 5.9e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCACT 15
Db 21 TCCATGGTGATCACT 7

RESULT 9
AAS09199/c
ID AAS09199 standard; DNA; 29 BP.
XX
AC AAS09199;

XX
DT 07-NOV-2001 (first entry)
XX
DE PCR primer #1 used to amplify cDNA encoding murine CCR7.
XX
KW Cell fusion assay; fluorescence resonance energy transfer; FRET;
KW beta-lactamase; inhibition of cell fusion; CD4; cytokine receptor;
KW HIV-1 infection; mouse; murine; CCR7; Th1 cell;
KW PCR primer; ss.
XX
OS Mus sp.
XX
PN WO200160995-A1.
XX
PD 23-AUG-2001.
XX
PF 13-FEB-2001; 2001WO-US04677.
XX
PR 17-FEB-2000; 2000US-0183309.
XX
PA (MERI) MERCK & CO INC.
XX
PI Sullivan KA, Benincasa D, Cascieri MA, Mitnaul LJ, Shiao L;
PI Tota MR;
XX
DR WPI; 2001-536569/59.
XX
PT Determining the amount of fusion that occur between two cells comprises
PT measurement of fluorescence energy transfer -
XX
PS Disclosure; Page 14; 59pp; English.
XX
CC The present invention relates to a method for determining the amount
CC of fusion that occurs between two cells, one of which contains the
CC enzyme beta-lactamase and the other of which contains a fluorescent
CC substrate of beta-lactamase. The method comprises the measurement of
CC fluorescence resonance energy transfer (FRET). The invention also
CC provides methods of identifying inhibitors of the fusion of two
CC types of cells, particularly when fusion is mediated by the
CC interaction of a viral protein and target cellular proteins e.g. CD4
CC and cytokine receptors. The methods are useful for identifying
CC substances that are useful for the treatment of viral diseases,
CC particularly for the identification of inhibitors of HIV-1 infection.
CC The present sequence for PCR primer #1 is used with PCR primer #2
CC (AAS09200) to amplify cDNA encoding CCR7 from murine Th1 cells.
XX
SQ Sequence 29 BP; 9 A; 8 C; 10 G; 2 T; 0 other;

Query Match 89.3%; Score 13.4; DB 22; Length 29;
Best Local Similarity 93.3%; Pred. No. 6e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCACT 15
Db 23 TCCATGGTGCTCTCT 9

RESULT 10
AAQ92762
ID AAQ92762 standard; DNA; 14 BP.
XX
AC AAQ92762;
XX
DT 13-FEB-1996 (first entry)
XX
DE c-erbB-2 antisense nucleic acid #105.
XX
KW Antisense nucleic acid; c-erbB-2; inhibition; fibroblast; neoplasm;
KW p185-erbB-2 protein tyrosine kinase; tumour; breast cancer; detection;
KW immune disease; angiogenesis; ss.
XX
OS Synthetic.
XX

PN WO9517507-A1.
XX 29-JUN-1995.
XX 09-DEC-1994; 94WO-EP04094.
XX 23-DEC-1993; 93EP-0120710.
XX (BIOG-) BIOGNOSTIK GES BIOMOLEKULARE DIAGNOSTIK.
PA Brysch W, Schlingensiepen G, Schlingensiepen K, Schlingensiepen R;
XX WPI; 1995-240669/31.
XX New anti:sense nucleic acid against C-erbB-2 - for treating or
PT preventing neoplasms, immune disease and angiogenesis, also for
PT diagnosis
XX Claim 1; Page 48; 55pp; English.
XX The sequences given in AAQ92658-762 are antisense nucleic acids which
CC hybridise with part of the mRNA and/or DNA encoding c-erbB-2. These
CC antisense nucleic acids are able to inhibit the expression of the
CC p185-erbB-2 protein tyrosine kinase activity and cell growth in a
CC number of tumour cells including breast cancer cells. Untransformed
CC normal fibroblasts are not growth inhibited by anti-c-erbB-2
CC antisense compounds suggesting that p185-erbB-2 plays a pathogenic
CC role in the growth of the above mentioned tumours. These antisense
CC oligonucleotides may be used in the prevention and treatment of
CC neoplasms, immune diseases and/or diseases involving pathological
CC angiogenesis when associated with c-erbB-2 expression. They may also
CC be used to detect expression of the relevant genes.
XX
SQ Sequence 14 BP; 2 A; 4 C; 4 G; 4 T; 0 other;

Query Match 86.7%; Score 13; DB 16; Length 14;
Best Local Similarity 100.0%; Pred. No. 9.2e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CATGGTGCTCACT 15
Db 1 CATGGTGCTCACT 13

RESULT 11
AAV48736
ID AAV48736 standard; DNA; 16 BP.
XX
AC AAV48736;
XX
DT 15-OCT-1998 (first entry)
XX
DE ErbB-2 gene antisense oligonucleotide ErbB-2-28.
XX
KW ErbB-2; antisense oligonucleotide; modulate; gene expression; ss.
XX
OS Synthetic.
OS Homo sapiens.
XX
PN EP856579-A1.
XX
PD 05-AUG-1998.
XX
PF 31-JAN-1997; 97EP-0101531.
XX
PR 31-JAN-1997; 97EP-0101531.
XX
PA (BIOG-) BIOGNOSTIK GES BIOMOLEKULARE DIAGNOSTIK.
XX
PI Brysch W, Schlingensiepen K;
XX
DR WPI; 1998-400910/35.
XX

PT Preparation of antisense oligo:nucleotide(s) which lack long runs of
PT consecutive guanosine or inosine - and have specific ratio of
PT residues able to form two or three hydrogen bonds, have greater
PT activity and reduced toxicity, used therapeutically or to modulate
PT growth of cells in culture
XX
PS Claim 10; Fig 6a; 286pp; English.
XX
CC AAV48709-886 represent antisense oligonucleotides directed against the
CC ErbB-2 gene. Of these, only oligonucleotides AAV48709-91 resulted
CC in significant reduction in ErbB-2 protein expression, while
CC oligonucleotides AAV48792-886 had little effect. The oligonucleotides
CC exemplify the invention. The specification describes oligonucleotides
CC that contain 8-30 nucleotides, which contain at most 8 nucleotides that
CC can each form three hydrogen bonds to cytosine; do not contain four
CC consecutive nucleotides able to form three H-bonds each to four
CC consecutive cytosines; do not contain two sequences of three consecutive
CC nucleotides each able to form three H-bonds to three consecutive
CC cytosines, and the ratio between residues able to form two H-bonds each
CC (2R) or three such bonds (3R) is given by 2R/3R = 0.33-0.72. The
CC oligonucleotides are used to modulate expression of genes, particularly
CC the genes for p53, ErbB-2, junB, junD, TGF-beta 1 or beta 2 to control
CC proliferation of primary cell cultures (e.g. bone marrow stem, liver or
CC kidney cells, osteoclasts, osteoblasts and/or keratinocytes). The
CC oligonucleotides can also be used to analyse function of proteins (by
CC altering their expression or activity) and therapeutically, e.g. in
CC cases of cancer or (targeting TGF) for stimulating the immune system.
XX
SQ Sequence 16 BP; 2 A; 5 C; 5 G; 4 T; 0 other;

Query Match 86.7%; Score 13; DB 19; Length 16;
Best Local Similarity 100.0%; Pred. No. 9.4e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CATGGTGCTCACT 15
Db 1 CATGGTGCTCACT 13

RESULT 12
AAA53776/c
ID AAA53776 standard; DNA; 19 BP.
XX
AC AAA53776;
XX
DT 04-DEC-2000 (first entry)
XX
DE Forward primer for HER-2 extracellular domain cDNA.
XX
KW HER-2; erbB-2; oncogene; receptor-like tyrosine kinase; insertion;
KW extracellular domain IIIa; antagonist; intron 8; C-terminal extension;
KW truncated HER-2; p68; dimerization inhibitor; cytostatic; primer; ss.
XX
OS Homo sapiens.
XX
PN WO200044403-A1.
XX
PD 03-AUG-2000.
XX
PF 20-JAN-2000; 2000WO-US01484.
XX
PR 20-JAN-1999; 99US-0234208.
XX
PA (UYOR-) UNIV OREGON HEALTH SCI.
XX
PI Doherty JK, Clinton GM, Adelman JP;
XX
DR WPI; 2000-499287/44.
XX
PT Using polypeptides and antibodies that bind to the extracellular domain
PT of the receptor-like tyrosine kinase HER-2 to treat solid tumors of the
PT breast, lung, ovaries and colon
XX

PS Example 1; Page 14; 46pp; English.

XX This primer, corresponding to HER-2 cDNA nucleotides 142-161, was used

CC to amplify the HER-2 extracellular domain. The reverse primers used are

CC shown in AAA53777 and AAA53778.

CC HER-2/neu (erbB-2) oncogene encodes a receptor-like tyrosine kinase. The

CC extracellular domain of p185-HER-2 is proteolytically shed from breast

CC carcinoma cells in culture and is found in serum of some cancer patients

CC and may be a serum marker of metastatic breast cancer. An alternative

CC HER-2 mRNA of 4.8 kb with a 274 bp insert (intron 8) has been

CC identified. The retained intron is in-frame and encodes a 79 amino acid

CC extension designated ECDIIIA (the present sequence), which is inserted at

CC residue 340 of p185-HER-2. The alternative mRNA predicts a truncated

CC HER-2 protein (approximately 68 kDa) that lacks the transmembrane and

CC intracellular domains (see AAY97240). p68HER-2 specifically binds to

CC p185-HER-2 without activating HER-2. It could therefore block

CC dimerization of p185-HER-2. The p68HER-2 polypeptide binds to a site on

CC the ECD of HER-2 that is different from the site of binding for

CC Herceptin (RTM) (a marketed humanized monoclonal antibody that is used

CC for the treatment of cancer and binds to the ECD of HER-2). The methods,

CC compositions, polypeptides and antibodies are used to treat solid

CC tumours such as breast cancer, small cell lung carcinoma, ovarian cancer

CC and/or colon cancer, especially where over-expression of HER-2 is

CC indicated.

XX

SQ Sequence 19 BP; 4 A; 5 C; 7 G; 3 T; 0 other;

Query Match 86.7%; Score 13; DB 21; Length 19;

Best Local Similarity 100.0%; Pred. No. 9.5e+02;

Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCA 13

Db 13 TCCATGGTGCTCA 1

RESULT 13

AAD15845/C

ID AAD15845 standard; DNA; 19 BP.

XX

AC AAD15845;

XX

DT 15-NOV-2001 (first entry)

XX

DE Human HER-2 ECD coding sequence amplifying forward PCR primer #1.

XX

KW HER-2; herstatin; antagonist; extracellular domain; ECD; Herceptin;

KW solid tumour; cancer; polymorphism; cytostatic; gene therapy; PCR primer;

KW ss.

XX

OS Homo sapiens.

XX

PN WO200161356-A1.

XX

PD 23-AUG-2001.

XX

PF 16-FEB-2001; 2001WO-US05327.

XX

PR 16-FEB-2000; 2000US-0506079.

XX

PA (UYOR-) UNIV OREGON HEALTH SCI.

XX

PI Clinton G, Henner WD, Evans A;

XX

DR WPI; 2001-529934/58.

XX

PT New polypeptide, which binds to the extracellular domain of HER-2 for

PT the treatment of hard tumors -

XX

PS Example 1; Page 22; 61pp; English.

XX

CC The invention relates to novel HER-2 (herstatin-2) antagonist

CC particularly a polypeptide that binds to the extracellular domain (ECD)

CC of HER-2 at a site that is different from the binding site of humanised

CC antibody, Herceptin, at an affinity of at least 10⁻⁸. The present

CC invention is based upon the initial discovery of an alternative HER-2

CC mRNA transcript with 274 bp insert of intron 8. The translation product

CC of the alternative transcript is a truncated HER-2 protein designated

CC p68HER-2 which lacks the transmembrane and intracellular domains of

CC p185HER-2 but contains ECD I, II of the p185HER-2 and the novel ECDIIIA.

CC The ECDIIIA-containing polypeptides bind tightly to, and thus antagonise

CC the HER-2 receptor. The peptides, which bind to an HER-2 ECD, and the

CC nucleic acids encoding these are useful to treat, diagnose and identify

CC solid tumours. The present sequence is a PCR primer used for amplifying

CC human HER2 ECD coding sequence.

XX

SQ Sequence 19 BP; 4 A; 5 C; 7 G; 3 T; 0 other;

Query Match 86.7%; Score 13; DB 22; Length 19;

Best Local Similarity 100.0%; Pred. No. 9.5e+02;

Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCA 13

Db 13 TCCATGGTGCTCA 1

RESULT 14

AAD32531/C

ID AAD32531 standard; DNA; 19 BP.

XX

AC AAD32531;

XX

DT 18-JUN-2002 (first entry)

XX

DE HER-2 extracellular domain cDNA amplifying forward PCR primer A.

XX

KW Endothelial growth factor receptor; EGFR; cytostatic; tumour; herstatin;

KW HER-2 receptor tyrosine kinase; squamous cell carcinoma; lung; colon;

KW glial cell tumour; cell growth; PCR; primer; ss.

XX

OS Unidentified.

XX

PN WO200214470-A2.

XX

PD 21-FEB-2002.

XX

PF 14-AUG-2001; 2001WO-US255502.

XX

PR 14-AUG-2000; 2000US-0638834.

XX

PA (UYOR-) UNIV OREGON HEALTH SCI.

XX

PI Clinton GM;

XX

DR WPI; 2002-269185/31.

XX

PT Treating solid tumor characterized by expression of endothelial growth

PT factor receptor, involves administering recombinant herstatin that

PT binds to extracellular domain of the endothelial growth factor receptor

PT -

XX

PS Example 1; Page 29; 82pp; English.

XX

CC The present invention relates to a method for treating a solid tumour

CC characterised by endothelial growth factor receptor (EGFR) expression.

CC The method involves administering an agent that binds to an extracellular

CC domain (ECD) of EGFR. The invention also relates to a naturally occurring

CC inhibitor of HER-2 receptor tyrosine kinase called herstatin. The co-

CC expression of herstatin with p185HER2 causes a striking reduction in cell

CC growth that corresponds with suppression of p185 autophosphorylation. The

CC method or a pharmaceutical composition is useful for treating a solid

CC tumour (selected from squamous cell carcinoma, lung carcinoma, colon

CC carcinoma and glial cell tumour) characterised by EGFR expression. The

CC present sequence is a PCR primer used for amplifying HER-2 extracellular

CC domain cDNA.

```

XX
SQ Sequence 19 BP; 4 A; 5 C; 7 G; 3 T; 0 other;

Query Match      86.7%; Score 13; DB 24; Length 19;
Best Local Similarity 100.0%; Pred. No. 9.5e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCA 13
Db 13 TCCATGGTGCTCA 1

RESULT 15
AAV84090
ID AAV84090 standard; DNA; 20 BP.
XX
AC AAV84090;
XX
DT 12-MAR-1999 (first entry)
XX
DE PCR primer MTL(P) used to amplify the iap, p35 and dad-1 genes.
XX
KW Transgenic maize; Agrobacterium induced necrosis inhibition;
KW metallothionein-like promoter; iap; p35; dad-1; PCR primer; ss.
XX
OS Synthetic.
XX
PN WO9854961-A2.
XX
PD 10-DEC-1998.
XX
PF 29-MAY-1998; 98WO-EP03215.
XX
PR 02-JUN-1997; 97US-0867869.
XX
PA (NOVS ) NOVARTIS-ERFINDUNGEN VERW GES MBH.
XX
PI Hansen G;
XX
DR WPI; 1999-059863/05.
XX
PT Transforming plant cells using Agrobacterium - in conditions that
PT inhibit Agrobacterium-induced necrosis
XX
PS Example 8; Page 25; 47pp; English.
XX
CC PCR primers AAV84090-93 were used for the amplification and detection
CC of iap, p35 and dad-1 genes in transgenic maize callus, which was
CC transformed with these genes using the method of the invention. The
CC genes were cloned under the control of a metallothionein-like
CC promoter (MLP). PCR primer AAV84090 hybridises promoter sequences, and
CC is used in combination with each of the other primers in separate
CC reactions. The specification describes a new method for transforming a
CC plant cell with a gene of interest. The method comprises exposing the
CC cell to Agrobacterium carrying that gene, under conditions which inhibit
CC Agrobacterium induced necrosis (AIN). The method is used to transform
CC plants with a gene of interest.
XX
SQ Sequence 20 BP; 4 A; 4 C; 7 G; 5 T; 0 other;

Query Match      86.7%; Score 13; DB 20; Length 20;
Best Local Similarity 100.0%; Pred. No. 9.6e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCA 13
Db 6 TCCATGGTGCTCA 18

Search completed: November 21, 2002, 05:08:27
Job time : 290 secs
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GenCore version 5.1.1.3
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OM nucleic - nucleic search, using sw model

Run on: November 21, 2002, 04:47:34 ; Search time 2148 Seconds
(without alignments)
113.097 Million cell updates/sec

Title: US-09-716-320-3
Perfect score: 15
Sequence: 1 tccatggtgctcact 15

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 16154066 seqs, 8097743376 residues

Total number of hits satisfying chosen parameters: 357874

Minimum DB seq length: 0
Maximum DB seq length: 100

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

- EST:*
- 1: em_estba:*
 - 2: em_esthum:*
 - 3: em_estin:*
 - 4: em_estmu:*
 - 5: em_estov:*
 - 6: em_estpl:*
 - 7: em_estro:*
 - 8: em_htc:*
 - 9: gb_est1:*
 - 10: gb_est2:*
 - 11: gb_htc:*
 - 12: gb_est3:*
 - 13: gb_est4:*
 - 14: gb_est5:*
 - 15: em_estfun:*
 - 16: em_estom:*
 - 17: gb_gss:*
 - 18: em_gss_hum:*
 - 19: em_gss_inv:*
 - 20: em_gss_pln:*
 - 21: em_gss_vrt:*
 - 22: em_gss_fun:*
 - 23: em_gss_mam:*
 - 24: em_gss_mus:*
 - 25: em_gss_other:*
 - 26: em_gss_pro:*
 - 27: em_gss_rod:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	13.4	89.3	75	13 BM023447	BM023447 ie80e10.y
2	12.4	82.7	58	9 AI022662	AI022662 ox05h11.x
3	12.4	82.7	74	9 AL362924	AL362924 AL362924
4	12.4	82.7	77	14 W15664	W15664 mb52d02.r1
5	12.4	82.7	80	10 AV832470	AV832470 AV832470
6	12.4	82.7	96	14 BQ566161	BQ566161 g153e03.y

C 7	12	80.0	62	17	AZ648327	AZ648327 1M0517K13
8	12	80.0	82	17	TA138D06P	AL465857 T. brucei
C 9	12	80.0	85	9	AI930840	AI930840 sb43a06.y
10	12	80.0	90	9	AA690354	AA690354 vt31b01.r
C 11	12	80.0	92	17	AZ590927	AZ590927 1M0400G16
C 12	11.8	78.7	38	17	TA358F01P	AL494114 T. brucei
13	11.8	78.7	65	9	AA285022	AA285022 zt25e10.s
14	11.8	78.7	70	17	BH805669	BH805669 1008061H0
15	11.8	78.7	72	17	AZ799758	AZ799758 2M0057G19
16	11.8	78.7	80	17	BH895273	BH895273 3526_1_33
17	11.8	78.7	86	17	BH806000	BH806000 1008063G0
C 18	11.8	78.7	89	13	BI472373	BI472373 fs02d01.y
19	11.8	78.7	91	10	AV834264	AV834264 AV834264
20	11.8	78.7	92	14	D18160	D18160 MUSGS00418
21	11.8	78.7	97	14	T62112	T62112 yc66c02.r1
22	11.8	78.7	99	17	AZ433742	AZ433742 1M0219H13
C 23	11.8	78.7	100	9	AA865812	AA865812 og97h05.s
C 24	11.4	76.0	22	17	AZ954618	AZ954618 2M0220E20
C 25	11.4	76.0	41	9	AL799065	AL799065 AL799065
C 26	11.4	76.0	46	9	AA591686	AA591686 v113g08.r
C 27	11.4	76.0	50	9	AA108275	AA108275 EST0018.r
C 28	11.4	76.0	50	9	AU102591	AU102591 AU102591
C 29	11.4	76.0	50	9	AU102592	AU102592 AU102592
C 30	11.4	76.0	50	9	AU102593	AU102593 AU102593
C 31	11.4	76.0	50	9	AU102594	AU102594 AU102594
C 32	11.4	76.0	50	9	AU102595	AU102595 AU102595
C 33	11.4	76.0	50	9	AU107574	AU107574 AU107574
C 34	11.4	76.0	56	9	AI656187	AI656187 tt38f04.x
35	11.4	76.0	60	17	AL752489	AL752489 Arabidops
36	11.4	76.0	68	14	T72238	T72238 yc68d01.r1
C 37	11.4	76.0	73	9	AA220616	AA220616 my25f09.r
C 38	11.4	76.0	74	12	BF528890	BF528890 602043353
39	11.4	76.0	77	9	AA387938	AA387938 vc87h07.r
40	11.4	76.0	77	14	T62949	T62949 yb99h02.s1
41	11.4	76.0	85	9	AI167298	AI167298 ox65c07.s
42	11.4	76.0	85	9	AA469098	AA469098 nel6g10.s
43	11.4	76.0	85	9	AA529090	AA529090 v132d12.r
44	11.4	76.0	90	9	AA213781	AA213781 zr92g11.r
45	11.4	76.0	91	9	AA089130	AA089130 mo21a01.r

ALIGNMENTS

RESULT 1
BM023447/c 75 bp mRNA linear EST 12-MAR-2002
LOCUS ie80e10.y1 Melton Normalized Human Islet 4 N4-HIS 1 Homo sapiens
DEFINITION cdna clone IMAGE:5673307 5', mRNA sequence.

ACCESSION BM023447
VERSION BM023447.1 GI:16537803

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

AUTHORS

Melton,D., Brown,J., Kenty,G., Permutt,A., Lee,C., Kaestner,K., Lemishka,I., Searce,M., Brestelli,J., Gradwohl,G., Clifton,S., Hillier,L., Marra,M., Pape,D., Wylie,T., Martin,J., Blistain,A., Schmitt,A., Theising,B., Ritter,E., Ronko,I., Bennett,J., Cardenas,M., Gibbons,M., McCann,R., Cole,R., Tsagareishvili,R., Williams,T., Jackson,Y. and Bowers,Y.

TITLE Endocrine Pancreas Consortium

JOURNAL Unpublished (2000)

COMMENT Other_ESTs: ie80e10.x1

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Tel: 617-495-1812
Fax: 617-495-8557

QY 2 CCATGGTGCTCACT 15
|||||
Db 8 CCATGGTGCTCTCT 21

RESULT 4
W15664
LOCUS
DEFINITION
W15664
mb52d02.r1 Soares mouse p3NMF19.5 Mus musculus cDNA clone
IMAGE:333027 5' similar to gb:V00714 Mouse gene for alpha-globin
(MOUSE);, mRNA sequence.

ACCESSION
W15664
VERSION
W15664.1 GI:1290047
KEYWORDS
EST.
SOURCE
house mouse.
ORGANISM
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
1 (bases 1 to 77)

REFERENCE
AUTHORS
Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T.,
Geisel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M.,
Schellenberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B.,
Theising,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and
Waterston,R.

TITLE
The WashU-HHMI Mouse EST Project
JOURNAL
Unpublished (1996)
COMMENT
Contact: Marra M/Mouse EST Project
WashU-HHMI Mouse EST Project
Washington University School of MedicineP
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LLNL ; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
MGI:214427

Seq primer: ETPprimer
High quality sequence stop: 70.

FEATURES
source
1. .77
/organism="Mus musculus"
/db_xref="taxon:10090"
/clone="IMAGE:333027"
/clone_lib="Soares mouse p3NMF19.5"
/dev_stage="19.5 dpc total fetus"
/lab_host="DH10B (ampicillin resistant)"
/note="Vector: pT7T3D (Pharmacia) with a modified
polylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA
was primed with a Not I - oligo(dT) primer [5',
TGTTACCAATCTGAAGTGGAGCGCGCATTTTCTTTTCTTTTCTTTT 3'],
double-stranded cDNA was size selected, ligated to Eco RI
adapters (Pharmacia), digested with Not I and cloned into
the Not I and Eco RI sites of a modified pT7T3 vector
(Pharmacia). Library went through one round of
normalization to a Cot = 5. Library constructed by Bento
Soares and M.Fatima Bonaldo. RNA was kindly provided by
Dr. Minoru KO (Wayne State University)."

BASE COUNT 23 a 15 c 28 g 11 t
ORIGIN

Query Match 82.7%; Score 12.4; DB 14; Length 77;
Best Local Similarity 92.9%; Pred. No. 2.1e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 CCATGGTGCTCACT 15
|||||
Db 18 CCATGGTGCTCTCT 31

RESULT 5
AV832470/c
LOCUS
DEFINITION
AV832470 K. Sato unpublished cDNA library: Hordeum vulgare subsp.

vulgare leaves vegetative stage Hordeum vulgare subsp. vulgare cDNA
clone baak3f24, mRNA sequence.

ACCESSION
AV832470
VERSION
AV832470.1 GI:14524559
KEYWORDS
EST.
SOURCE
Hordeum vulgare subsp. vulgare.
ORGANISM
Hordeum vulgare subsp. vulgare
Eukaryota; Viridiplantae; Streptophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Poideae
; Triticeae; Hordeum.
1 (bases 1 to 80)

REFERENCE
AUTHORS
Sato,K.
TITLE
Barley EST sequencing project in NIG and Okayama Univ
JOURNAL
Unpublished (2001)
COMMENT
Contact: Kazuhiro Sato
Research Institute for Bioresources
Okayama University, Barley Germplasm Center
Chuo 2-20-1, Kurashiki, Okayama 710-0046, Japan
Email: kzsato@rib.okayama-u.ac.jp
URL:http://www.rib.okayama-u.ac.jp/barley/
Sato,K., Saisho,D., Takeda,K., Shini,T. and Kohara,Y. Direct
submission;
database:http://www.shigen.nig.ac.jp/barley/Barley.html.

FEATURES
Location/Qualifiers
1. .80
/organism="Hordeum vulgare subsp. vulgare"
/cultivar="Akashinriki"
/db_xref="taxon:112509"
/clone="baak3f24"
/clone_lib="K. Sato unpublished cDNA library: Hordeum
vulgare subsp. vulgare leaves vegetative stage"
/tissue_type="leaves"
/dev_stage="vegetative stage"
25 a 13 c 22 g 14 t 6 others
BASE COUNT
ORIGIN

Query Match 82.7%; Score 12.4; DB 10; Length 80;
Best Local Similarity 92.9%; Pred. No. 2.1e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 CCATGGTGCTCACT 15
|||||
Db 14 CCATGGTGCTCTCT 1

RESULT 6
BQ566161
LOCUS
DEFINITION
BQ566161
gi53e03.y1 Mouse Organ of Corti cDNA pBluescript Mus musculus cDNA
clone gi53e03 5', mRNA sequence.
BQ566161
ACCESSION
BQ566161.1 GI:21469490
VERSION
BQ566161.1
KEYWORDS
EST.
SOURCE
house mouse.
ORGANISM
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
1 (bases 1 to 96)

REFERENCE
AUTHORS
Kachar,B.
TITLE
EST analysis of gene expression in the mouse Organ of Corti at the
onset of hearing
JOURNAL
Unpublished (2002)
COMMENT
Contact: Kachar,B.
Structural Cell Biology
National Institute of Deafness and other Communication Disorders
50/4249 South Drive, NIH, Bethesda, MD 20892-8027, USA
Tel: 301-402-1599
Fax: 301-402-1765
Email: kachar@nidcd.nih.gov
Plate: 53 row: e column: 03
Seq primer: M13RP1 reverse primer (ABI).
Location/Qualifiers
1. .96

/organism="Mus musculus"
/strain="BALB/c"
/db_xref="taxon:10090"
/clone="gi53e03"
/clone_lib="Mouse Organ of Corti cDNA pBluescript"
/sex="male and female"
/dev_stage="Post natal day 5 to 13"
/note="Organ: Organ of Corti; Vector: pBluescript; The organ of Corti (OC) was fine dissected from a total of 386 OC as follows: 102 samples from post-natal (P) day 5; 72 from P6; 60 from P7; 46 from P8; 18 from P9; 20 from P10; 14 from P12 and 24 from P13. After killing animals by cervical dislocation followed by decapitation, the bulla was removed and opened in Leibowitz medium. The bony capsule of the cochlea was chipped away, stria vascularis and spiral ligament were removed and the sensory epithelium was carefully dissected out of the modiolus. Total RNA was extracted using the micro Fasttrack kit (catalog # K1593-02; Invitrogen, Carlsbad, CA), according to manufacturer's instructions. Reverse transcription and library construction were carried out with the Uni-zap XR vector kit (catalog # 237211, Stratagene) and Uni-zap XR Gigapack III Gold Cloning kit (catalog # 237612), both from Stratagene (La Jolla, CA, USA), according to manufacturer's instructions. Briefly: 1.5 ug mRNA was reverse transcribed using a hybrid oligo(dT) linker-primer that contains an Xho I site. First strand synthesis was primed with the linker- primer and transcribed using Moloney murine leukemia virus reverse transcriptase (MMLV-RT) and 5-methyl dCTP. The second strand was synthesized with DNA polymerase and RNase H. Complementary DNA was blunt ended with Pfu DNA polymerase, ligated with EcoR I adapters in the presence of ligase and digested with Xho I. The cDNA was sequentially size fractionated over Pharmacia Size Sep400 (Pharmacia, Uppsala, Sweden) and Clontech Chroma Spin-1000 (Clontech, Palo Alto, CA) columns to enrich for cDNAs greater than 400bp and 1000 bp , respectively. The cDNA was then directionally ligated to the Uni-ZAP XR vector, which had been predigested with EcoR I and Xho I. The phagemid was packaged with Gigapak III Gold and, upon titration on XL1 Blue MRF⁺ cells, the yield of the phage library was estimated to be 11,100,000 recombinants. Stratagene's ExAssist Interference resistance helper phage (catalogue # 211203) was adopted to rescue plasmid DNA from the phages. Upon plating of the rescued library, individual cDNA clones were selected and grown in 96-well, 2 ml growth plate. Plasmid DNA was purified from 200 ul of saturated culture with the Concert96(TM) plasmid purification kit (Invitrogen, Carlsbad, CA) as instructed by the manufacturer. ESTs from the 5' end of the cDNA clones were generated with the universal M13 reverse primer (CAGGAACAGCTATGACC) and 25% strength BigDye terminator sequencing chemistry (Applied Biosystems, Foster City, CA). Sequencing reactions were performed on MJ Tetrad thermal cyclers (MJ Research, Waltham, MA), and analyzed on 3700 automated capillary sequencers using POP5 polymer (Applied Biosystems, Foster City, CA). The frequency distribution of the library is as follows: 72% of genes have 1 copy; 14.3% 2; 12% 3-10; 1.4% 11-50 and 0.1% 51-150. As to gene function, 45% of genes are present in GenBank and have know function; 23% have hits in GenBank, but do not have assigned function; 12% are uncharacterized ESTs and 20% are unidentified."

BASE COUNT 28 a 19 c 34 g 15 t
ORIGIN

Query Match 82.7%; Score 12.4; DB 14; Length 96;
Best Local Similarity 92.9%; Pred. No. 2.3e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 CCATGGTGCTCACT 15
 |||||
Db 23 CCATGGTGCTCTCT 36

RESULT 7
AZ648327/c
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
FEATURES
source
BASE COUNT
ORIGIN

AZ648327
1M0517K13F Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0517K13 F, DNA sequence.
AZ648327
AZ648327.1 GI:11780683
GSS.
house mouse.
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 62)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly ,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0517 row: K column: 13
Seq primer: CGTTGTAACGACGGCCAGT
Class: plasmid ends
High quality sequence stop: 62.
Location/Qualifiers
1..62
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0517K13"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 (gi14732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

11 a 20 c 15 g 16 t

Query Match 80.0%; Score 12; DB 17; Length 62;
Best Local Similarity 100.0%; Pred. No. 2.9e+04;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 CCATGGTGCTCA 13
 |||||
Db 45 CCATGGTGCTCA 34

RESULT 8
TA138D06P
LOCUS
DEFINITION
TA138D06P 82 bp DNA linear GSS 13-DEC-2000
T. brucei sheared genomic DNA clone 138d06, forward sequence,
genomic survey sequence.
ACCESSION
AL465857
VERSION
AL465857.1 GI:11835283
KEYWORDS
GSS.
SOURCE
Trypanosoma brucei.
ORGANISM
Trypanosoma brucei
Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae;
Trypanosoma.
1 (bases 1 to 82)
Hall,N., Bowman,S., Lennard,N.J., Doggett,J., Atkin,R.,
Chillingworth,C., Ormond,D., Harris,B., El-Sayed,N., Hou,L.,
Melville,S.E., Rajandream,M.A. and Barrell,B.G.
Direct Submission
Submitted (10-DEC-2000) Trypanosoma brucei genome sequencing
project, Sanger Centre, The Wellcome Trust Genome Campus, Hinxton,
Cambridge CB10 1SA, E-mail: barrell@sanger.ac.uk and
nh1@sanger.ac.uk
Constructed at the Institute for Genomic Research (TIGR),
Rockville, MD. Genomic DNA isolated from a cloned population of
Trypanosoma brucei (TREU927/4 GUTat 10.1) was mechanically sheared
to give a tight size distribution (4 kb). The v + i method used for the library construction is
described in detail in Smith, H. and Venter, J.C. (Making small
insert libraries for whole genome shotgun sequencing projects. In
Genome Sequencing: A Practical Approach, eds. M. Vaudin and B.
Barrell, Oxford University Press, 1999).
Email: nelsayed@tigr.org
Details of T. brucei sequencing at the Sanger Centre are available
at http://www.sanger.ac.uk/projects/T_brucei/.

FEATURES
source
1. .85
/organism="Trypanosoma brucei"
/strain="TREU927"
/db_xref="taxon:5691"
/clone="138d06"

BASE COUNT 33 a 13 c 12 g 24 t
ORIGIN
Query Match 80.0%; Score 12; DB 17; Length 82;
Best Local Similarity 100.0%; Pred. No. 3.4e+04;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 ATGGTGCCTCACT 15
|||||
Db 60 ATGGTGCCTCACT 71

RESULT 9
AI930840/c
LOCUS
DEFINITION
AI930840 85 bp mRNA linear EST 30-NOV-2001
sb43a06.y1 Gm-cl015 Glycine max cDNA clone GENOME SYSTEMS CLONE ID:
Gm-cl015-11 5' similar to TR:Q40290 Q40290 CAS15. [2] TR:Q40334 ;,
mRNA sequence.
ACCESSION
AI930840
VERSION
AI930840.1 GI:5666804
KEYWORDS
EST.
SOURCE
soybean.
ORGANISM
Glycine max
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Rosidae; eurosids I; Fabales; Fabaceae; Papilionoideae; Phaseoleae;
Glycine.
1 (bases 1 to 85)
Shoemaker,R., Keim,P., Vodkin,L., Erpelding,J., Coryell,V., Khanna
,A., Bolla,B., Marra,M., Hillier,L., Kucaba,T., Martin,J., Beck,C.,
Wyllie,T., Underwood,K., Steptoe,M., Theising,B., Allen,M., Bowers
,Y., Person,B., Swaller,T., Gibbons,M., Pape,D., Harvey,N., Schurk

TITLE
JOURNAL
COMMENT

,R., Ritter,E., Kohn,S., Shin,T., Jackson,Y., Cardenas,M., McCann
,R., Waterston,R. and Wilson,R.
Public Soybean EST Project
Unpublished (1999)
Contact: Shoemaker R/Public Soybean EST Project
Public Soybean EST Project
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
Trace considered overall poor quality
Possible reversed clone: similarity on wrong strand This clone is
available through: ResGen, Invitrogen Corp. 2130 South Memorial
Parkway Huntsville, AL 35801 For further information call: (800
)-533-4363 or contact via email: ccu@resgen.com
Seq primer: -40RP from Gibco
High quality sequence stop: 1.
Location/Qualifiers

FEATURES
source

1. .85
/organism="Glycine max"
/db_xref="taxon:3847"
/clone="GENOME SYSTEMS CLONE ID: Gm-cl015-11"
/clone_lib="Gm-cl015"
/tissue_type="Mature flowers, field grown plants"
/lab_host="XL10-Gold"
/note="Vector: pBluescript II XR; Site_1: EcoRI; Site_2:
XhoI; This cDNA library was constructed from mRNA isolated
from mature flowers of field grown plants. The cDNA
library was prepared using the Stratagene pBluescript II
XR cDNA library construction kit. Complementary DNA was
synthesized from mRNA using a primer consisting of a poly
(dT) sequence with a XhoI restriction site. EcoRI adapters
were ligated to the blunt-ended cDNA fragments followed by
XhoI digestion. The cDNA fragments were directionally
cloned into the EcoRI-XhoI restriction site of the
pBluescript vector. The ligated cDNA fragments were
transformed into XL10-Gold host cells. This library was
constructed by Dr. Randy Shoemaker and Dr. John
Erpelding."

BASE COUNT 25 a 15 c 25 g 20 t
ORIGIN
Query Match 80.0%; Score 12; DB 9; Length 85;
Best Local Similarity 100.0%; Pred. No. 3.4e+04;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CATGGTGCTCAC 14
|||||
Db 83 CATGGTGCTCAC 72

RESULT 10
AA690354
LOCUS
DEFINITION
AA690354 90 bp mRNA linear EST 16-DEC-1997
vt31b01.r1 Barstead mouse proximal colon MPLRB6 Mus musculus cDNA
clone IMAGE:1164649 5', mRNA sequence.
ACCESSION
AA690354
VERSION
AA690354.1 GI:2691290
KEYWORDS
EST.
SOURCE
house mouse.
ORGANISM
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 90)
Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T.,
Geisel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M.,
Schellenberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B.,
Theising,B., Wyllie,T., Lennon,G., Soares,B., Wilson,R. and
Waterston,R.
The WashU-HMI Mouse EST Project
Unpublished (1996)
Contact: Marra M/Mouse EST Project

WashU-HHMI Mouse EST Project
Washington University School of MedicineP
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LLNL ; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
MGI:630561
Putative full length read
vector to vector length is 147
Seq primer: -28m13 rev2 ET from Amersham.
Features
Location/Qualifiers
1. .90
/organism="Mus musculus"
/strain="FVB/N"
/db_xref="taxon:10090"
/clone="IMAGE:1164649"
/clone_lib="Barstead mouse proximal colon MPLRB6"
/dev_stage="7 day juvenile"
/lab_host="DH10B"
/note="Vector: pT7T3D-Pac (Pharmacia) with a modified
polylinker; Site_1: EcoRI; Site_2: NotI; 1st strand cDNA
was primed with a Not I - oligo(dT) primer [5'
TGTTACGAATCTGAAGTGGAGCGGCCCTTTTCTTTTCTTTTCTTTTCTTTT
3']; double-stranded cDNA was ligated to Eco RI adaptors
[AATTCGATCCTTG], digested with Not I and cloned into the
Not I and Eco RI sites of the modified pT7T3 vector.
Library constructed by Bob Barstead. "
BASE COUNT 26 a 26 c 16 g 22 t
ORIGIN

Query Match 80.0%; Score 12; DB 9; Length 90;
Best Local Similarity 100.0%; Pred. No. 3.5e+04;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CATGGTGCTCAC 14
|||||
Db 18 CATGGTGCTCAC 29

RESULT 11
AZ590927/c
LOCUS
DEFINITION
AZ590927 92 bp DNA linear GSS 13-DEC-2000
1M0400G16R Mouse 10kb plasmid UUGCLM library Mus musculus genomic
clone UUGCLM0400G16 R, DNA sequence.
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
AZ590927
1M0400G16R Mouse 10kb plasmid UUGCLM library Mus musculus genomic
clone UUGCLM0400G16 R, DNA sequence.
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
AZ590927.1 GI:11713117
house mouse.
Mus musculus
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 92)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausen,A.
and Wright,D.,Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0400 row: G column: 16
Seq primer: CACACAGGAACAGCTATGACC
Class: plasmid ends

High quality sequence stop: 92.
Features
Location/Qualifiers
1. .92
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGCLM0400G16"
/clone_lib="Mouse 10kb plasmid UUGCLM library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptor DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (gi|4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptor mouse DNA was annealed to
adaptor vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."
BASE COUNT 20 a 24 c 23 g 25 t
ORIGIN

Query Match 80.0%; Score 12; DB 17; Length 92;
Best Local Similarity 100.0%; Pred. No. 3.6e+04;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CATGGTGCTCAC 14
|||||
Db 16 CATGGTGCTCAC 5

RESULT 12
TA358F01P/c
LOCUS
DEFINITION
TA358F01P 38 bp DNA linear GSS 13-DEC-2000
T. brucei sheared genomic DNA clone 358f01, forward sequence,
genomic survey sequence.
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
TA358F01P
T. brucei sheared genomic DNA clone 358f01, forward sequence,
genomic survey sequence.
AL494114.1 GI:11870743
GSS.
Trypanosoma brucei.
Trypanosoma brucei
Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae;
Trypanosoma.
1 (bases 1 to 38)
Hall,N., Bowman,S., Lennard,N.J., Doggett,J., Atkin,R.,
Chillingworth,C., Ormond,D., Harris,B., El-Sayed,N., Hou,L.,
Melville,S.E., Rajandream,M.A. and Barrell,B.G.
Direct Submission
Submitted (10-DEC-2000) Trypanosoma brucei genome sequencing
project, Sanger Centre, The Wellcome Trust Genome Campus, Hinxton,
Cambridge CB10 1SA, E-mail: barrell@sanger.ac.uk and
nhl@sanger.ac.uk
Constructed at the Institute for Genomic Research (TIGR),
Rockville, MD. Genomic DNA isolated from a cloned population of
trypanosoma brucei (TREU927/4 GUTat 10.1) was mechanically sheared
to give a tight size distribution (4 kb). The v + i method used for the library construction is
described in detail in Smith, H. and Venter, J.C. (Making small
insert libraries for whole genome shotgun sequencing projects. In
Genome Sequencing: A Practical Approach, eds. M. Vaudin and B.
Barrell, Oxford University Press, 1999).
Email: nelsayed@tigr.org
Details of T. brucei sequencing at the Sanger Centre are available

5

ACCESSION

ACCESSION **AZ799758**

ESTON

KEYWORDS GSS.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 72)
AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.
and Wright,D., Weiss,R.
TITLE Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
JOURNAL Unpublished (2000)
COMMENT Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0057 row: G column: 19
Seq primer: CGTTGTAACACGACGCCAGT
Class: plasmid ends
High quality sequence stop: 72.

FEATURES
source Location/Qualifiers
1..72
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC2M0057G19"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptored DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (gi|4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptored mouse DNA was annealed to
adaptored vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

BASE COUNT 13 a 18 c 16 g 25 t
ORIGIN
Query Match 78.7%; Score 11.8; DB 17; Length 72;
Best Local Similarity 86.7%; Pred. No. 4e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 TCCATGGTGCTCACT 15
|||||
Db 48 TCCATGGTGCTCATT 62

Search completed: November 21, 2002, 06:51:59
Job time : 2153 secs

GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: November 21, 2002, 05:03:29 ; Search time 67 Seconds
(without alignments)
68.659 Million cell updates/sec

Title: US-09-716-320-3

Perfect score: 15
Sequence: 1 tccatgggtgctcact 15

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 687286

Minimum DB seq length: 0
Maximum DB seq length: 100

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA: *
1: /cgn2_6/ptodata/1/ina/5A_COMB.seq: *
2: /cgn2_6/ptodata/1/ina/5B_COMB.seq: *
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq: *
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq: *
5: /cgn2_6/ptodata/1/ina/PCRUS_COMB.seq: *
6: /cgn2_6/ptodata/1/ina/backfiles1.seq: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	15	100.0	15	3	US-08-991-830A-3
2	15	100.0	24	1	US-08-435-350-4
3	14	93.3	15	2	US-08-740-821-1
4	13	86.7	14	4	US-08-666-341A-105
5	13	86.7	19	4	US-09-630-155-3
6	13	86.7	20	4	US-09-089-111-3
7	13	86.7	26	4	US-08-463-691-18
8	13	86.7	26	4	US-08-255-236-6
9	12.4	82.7	22	2	US-08-229-528-5
10	12.4	82.7	47	4	US-09-338-907-248
11	12.4	82.7	47	4	US-09-218-207-248
12	12	80.0	27	1	US-08-503-730-44
13	12	80.0	53	1	US-08-503-730-29
14	12	80.0	62	1	US-08-503-730-30
15	11.8	78.7	50	2	US-08-832-468-6
16	11.8	78.7	54	1	US-08-363-240A-1077
17	11.8	78.7	54	4	US-08-584-040-4423
18	11.8	78.7	64	1	US-08-290-592E-41
19	11.8	78.7	64	5	PCT-US96-09448-41
20	11.8	78.7	100	1	US-08-655-086-3
21	11.8	78.7	100	3	US-08-441-971-23
22	11.8	78.7	100	4	US-08-221-653-23
23	11.8	78.7	100	4	US-08-442-144A-23
24	11.8	78.7	100	4	US-08-441-970-23
25	11.4	76.0	15	4	US-09-081-646-198
26	11.4	76.0	20	3	US-09-280-799-190
27	11.4	76.0	26	2	US-08-759-581B-16

28	11.4	76.0	26	4	US-09-304-711-16	Sequence 16, Appl
29	11.4	76.0	26	4	US-09-173-281-16	Sequence 16, Appl
30	11.4	76.0	30	4	US-09-368-770-8	Sequence 8, Appl
31	11.4	76.0	30	4	US-09-033-556-15	Sequence 15, Appl
32	11.4	76.0	36	4	US-09-198-119C-19	Sequence 19, Appl
c 33	11	73.3	14	5	PCT-US96-05611A-16	Sequence 16, Appl
c 34	11	73.3	15	4	US-08-268-381-1	Sequence 1, Appl
c 35	11	73.3	20	3	US-09-286-904-77	Sequence 77, Appl
c 36	11	73.3	20	4	US-09-640-101-77	Sequence 77, Appl
37	11	73.3	22	4	US-09-245-248B-63	Sequence 63, Appl
38	11	73.3	23	4	US-09-177-650-97	Sequence 97, Appl
c 39	11	73.3	27	1	US-08-083-948-9	Sequence 9, Appl
c 40	11	73.3	27	1	US-08-393-785-9	Sequence 9, Appl
c 41	11	73.3	27	1	US-08-475-694-9	Sequence 9, Appl
c 42	11	73.3	27	1	US-08-712-057-9	Sequence 9, Appl
43	11	73.3	28	3	US-08-441-971-73	Sequence 73, Appl
44	11	73.3	28	4	US-08-221-653-73	Sequence 73, Appl
45	11	73.3	28	4	US-08-442-144A-73	Sequence 73, Appl

ALIGNMENTS

RESULT 1
US-08-991-830A-3
; Sequence 3, Application US/08991830A
; Patent No. 6027892
; GENERAL INFORMATION:
; APPLICANT: Chang, Esther H.
; APPLICANT: Pirollo, Kathleen F.
; TITLE OF INVENTION: Compositions and Methods for Reducing Radiation and Drug Re
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sana A. Pratt
; STREET: 10821 Hillbrooke Lane
; CITY: Potomac
; STATE: MARYLAND
; COUNTRY: USA
; ZIP: 20854
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Apple Macintosh
; OPERATING SYSTEM: Macintosh 7.5
; SOFTWARE: Microsoft Word 6.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/991,830A
; FILING DATE: 16 December 1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/034,160
; FILING DATE: 30 December 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Sana A. Pratt
; REGISTRATION NUMBER: 39,441
; REFERENCE/DOCKET NUMBER:
; TELEPHONE: (301) 294-9171
; TELEFAX: (301) 294-7357
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: Nucleic acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; MOLECULE TYPE: DNA
US-08-991-830A-3

Query Match 100.0%; Score 15; DB 3; Length 15;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCACT 15
|||||

Double Pst, .

Db 1 TCCATGGTGCTCACT 15

RESULT 2

US-08-435-350-4/C

; Sequence 4, Application US/08435350

; Patent No. 5599704

; GENERAL INFORMATION:

; APPLICANT: James D. Thompson

; APPLICANT: Kenneth G. Draper

; TITLE OF INVENTION: METHOD AND REAGENT FOR

; TITLE OF INVENTION: TREATMENT OF BREAST CANCER

; NUMBER OF SEQUENCES: 118

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Lyon & Lyon

; STREET: 611 West Sixth Street

; CITY: Los Angeles

; STATE: California

; COUNTRY: USA

; ZIP: 90017

; COMPUTER READABLE FORM:

; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: IBM P.C. DOS (Version 5.0)

; SOFTWARE: Wordperfect (Version 5.1)

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/435,350

; FILING DATE: 05-MAY-1995

; CLASSIFICATION: 514

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 07/936,531

; FILING DATE: August 26, 1992

; ATTORNEY/AGENT INFORMATION:

; NAME: Warburg, Richard J.

; REGISTRATION NUMBER: 32,327

; REFERENCE/DOCKET NUMBER: 197/245

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (213) 489-1600

; TELEFAX: (213) 955-0440

; TELEX: 67-3510

; INFORMATION FOR SEQ ID NO: 4:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 24

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

US-08-435-350-4

Query Match 100.0%; Score 15; DB 1; Length 24;

Best Local Similarity 100.0%; Pred. No. 17;

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCACT 15

Db 21 TCCATGGTGCTCACT 7

RESULT 3

US-08-740-821-1

; Sequence 1, Application US/08740821

; Patent No. 5910583

; GENERAL INFORMATION:

; APPLICANT: Marks, Jeffrey R.

; APPLICANT: Vaughn, James P.

; APPLICANT: Iglehart, James D.

; TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDES

; NUMBER OF SEQUENCES: 8

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.

; STREET: Post Office Drawer 34009

; CITY: Charlotte

; STATE: No. 5910583th Carolina

; COUNTRY: USA

; ZIP: 28234

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/740,821

; FILING DATE: 04-NOV-1996

; CLASSIFICATION: 514

; ATTORNEY/AGENT INFORMATION:

; NAME: Sibley, Kenneth D.

; REGISTRATION NUMBER: 31,665

; REFERENCE/DOCKET NUMBER: 5405-134

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 919-420-2200

; TELEFAX: 919-881-3175

; INFORMATION FOR SEQ ID NO: 1:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 15 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: other nucleic acid

; DESCRIPTION: /desc = "OLIGONUCLEOTIDE"

US-08-740-821-1

Query Match 93.3%; Score 14; DB 2; Length 15;

Best Local Similarity 100.0%; Pred. No. 59;

Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCAC 14

Db 2 TCCATGGTGCTCAC 15

RESULT 4

US-08-666-341A-105

; Sequence 105, Application US/08666341A

; Patent No. 6365345

; GENERAL INFORMATION:

; APPLICANT:

; TITLE OF INVENTION: Antisense nucleic Acids for the

; TITLE OF INVENTION: prevention and treatment of disorders in which expression

; TITLE OF INVENTION: of c-erbB plays a role

; NUMBER OF SEQUENCES: 106

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Jacobson, Price, Holman and Stern, PLLC

; STREET: 400 Seventh street, N.W.

; CITY: Washington

; STATE: D.C.

; COUNTRY: USA

; ZIP: 20004

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disc

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/666,341A

; FILING DATE: 15-AUG-1996

; CLASSIFICATION: 514

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 93120710.4

; INFORMATION FOR SEQ ID NO: 105:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 14 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: unknown

; TOPOLOGY: unknown

; MOLECULE TYPE: DNA (genomic)

; ANTI-SENSE: YES

US-08-666-341A-105

Query Match 86.7%; Score 13; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CATGGTGCTCACT 15
|||||
Db 1 CATGGTGCTCACT 13

RESULT 5

US-09-630-155-3/c
; Sequence 3, Application US/09630155
; Patent No. 6414130
; GENERAL INFORMATION:
; APPLICANT: Doherty, Joni Kristin and Gail M. Clinton
; TITLE OF INVENTION: HER-2 BINDING ANTAGONISTS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: DAVIS WRIGHT TREMAINE LLP
; STREET: 1501 Fourth Avenue, 2600 Century Square
; CITY: Seattle
; STATE: Washington
; COUNTRY: U.S.A.
; ZIP: 98101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: PC compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: Word
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/630,155
; FILING DATE: 16-Jan-2001
; CLASSIFICATION: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Davison, Barry L.
; REGISTRATION NUMBER: 47,309
; REFERENCE/DOCKET NUMBER: 49321-10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206 628-7621
; TELEFAX: 206 628-7699
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 19
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: unknown
; MOLECULE TYPE: oligonucleotide
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:

US-09-630-155-3
Query Match 86.7%; Score 13; DB 4; Length 19;
Best Local Similarity 100.0%; Pred. No. 2.1e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCA 13
|||||
Db 13 TCCATGGTGCTCA 1

RESULT 6

US-09-089-111-3
; Sequence 3, Application US/09089111
; Patent No. 6162965
; GENERAL INFORMATION:
; APPLICANT: Hansen, Genevieve
; TITLE OF INVENTION: Plant Transformation Methods
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 6162965artis Corporation
; STREET: 3054 Cornwallis Rd.
; CITY: Research Triangle Park
; STATE: NC

COUNTRY: USA
ZIP: 27709
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/089,111
FILING DATE: 02-Jun-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Hoxie, Thomas
REGISTRATION NUMBER: 32,993
REFERENCE/DOCKET NUMBER: CGC1928/R
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-541-8614
TELEFAX: 919-541-8689
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
IMMEDIATE SOURCE:
CLONE: MTL (P)

US-09-089-111-3

Query Match 86.7%; Score 13; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.1e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCA 13
|||||
Db 6 TCCATGGTGCTCA 18

RESULT 7

US-08-463-691-18
; Sequence 18, Application US/08463691
; Patent No. 6165712
; GENERAL INFORMATION:
; APPLICANT: J. Gordon Foulkes et al.
; TITLE OF INVENTION: Methods of Transcriptionally
; TITLE OF INVENTION: Modulating Expression of Viral Genes and Genes Useful for t
; TITLE OF INVENTION: Production of Proteins
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: John P. White, Esq.
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/463,691
; FILING DATE: 5-JUN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P.
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 26134-G12
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-278-0400
; TELEFAX: 212-591-0525

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;
;
; TELEX:
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 26 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
;   MOLECULE TYPE: DNA (genomic)
;   US-08-463-691-18
;
; Query Match      86.7%; Score 13; DB 4; Length 26;
; Best Local Similarity 100.0%; Pred. No. 2.1e+02;
; Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
QY      3 CATGGTGCTCACT 15
      ||| ||| ||| ||| |||
Db      1 CATGGTGCTCACT 13

RESULT 8
US-08-255-236-6
; Sequence 6, Application US/08255236
; Patent No. 6203976
; GENERAL INFORMATION:
; APPLICANT: Foulkes, J. Gordon
; TITLE OF INVENTION: METHODS OF TRANSCRIPTIONALLY MODULATING EXPRESSION OF
; TITLE OF INVENTION: VIRAL GENES AND GENES USEFUL FOR PRODUCTION OF PROTEINS
; FILE REFERENCE: 2613491
; CURRENT APPLICATION NUMBER: US/08/255,236
; CURRENT FILING DATE: 1994-06-07
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 26
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-08-255-236-6

Query Match      86.7%; Score 13; DB 4; Length 26;
Best Local Similarity 100.0%; Pred. No. 2.1e+02;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3 CATGGTGCTCACT 15
      ||| ||| ||| ||| |||
Db      1 CATGGTGCTCACT 13

RESULT 9
US-08-229-528-5/c
; Sequence 5, Application US/08229528
; Patent No. 5837447
; GENERAL INFORMATION:
; APPLICANT: GORSKI, Jack
; TITLE OF INVENTION: MONITORING AN IMMUNE RESPONSE BY ANALYSIS OF AMPLIFIED IMMUNO
; NUMBER OF SEQUENCES: 51
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: P. O. Box 1497
; CITY: Madison
; STATE: Wisconsin
; COUNTRY: USA
; ZIP: 53701-1497
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS 3.3
; SOFTWARE: Wordperfect, Version 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/229,528
; FILING DATE: 18-APR-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/868,569
; FILING DATE: 15-APR-1992
```

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;
;
; ATTORNEY/AGENT INFORMATION:
; NAME: Scanlon, William J.
; REGISTRATION NUMBER: 30,136
; REFERENCE/DOCKET NUMBER: 30383/133
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (608) 258-4284
; TELEFAX: (608) 258-4258
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 22 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
;   MOLECULE TYPE: Other nucleic acid;
;   DESCRIPTION: Synthetic DNA oligonucleotide
;   US-08-229-528-5
;
; Query Match      82.7%; Score 12.4; DB 2; Length 22;
; Best Local Similarity 92.9%; Pred. No. 4.3e+02;
; Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
QY      1 TCCATGGTGCTCAC 14
      ||| ||| ||| ||| |||
Db      21 TCCAAGGTGCTCAC 8

RESULT 10
US-09-338-907-248
; Sequence 248, Application US/09338907
; Patent No. 6265546
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Ilva, Chumakov
; APPLICANT: Bougueleret, Lydie
; TITLE OF INVENTION: PROSTATE CANCER GENE
; FILE REFERENCE: GENSET.18CP1CP
; CURRENT APPLICATION NUMBER: US/09/338,907
; CURRENT FILING DATE: 1999-06-23
; EARLIER APPLICATION NUMBER: 08/996,306
; EARLIER FILING DATE: 1997-12-22
; EARLIER APPLICATION NUMBER: 60/099,658
; EARLIER FILING DATE: 1998-09-09
; EARLIER APPLICATION NUMBER: 09/218,207
; EARLIER FILING DATE: 1998-12-22
; NUMBER OF SEQ ID NOS: 578
; SOFTWARE: Patent.pm
; SEQ ID NO 248
; LENGTH: 47
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: allele
; LOCATION: 1..47
; OTHER INFORMATION: polymorphic fragment 99-148-366
; FEATURE:
; NAME/KEY: allele
; LOCATION: 24
; OTHER INFORMATION: polymorphic base G
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 1..23
; OTHER INFORMATION: potential microsequencing oligo 99-148-366.mis1
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 25..47
; OTHER INFORMATION: complement potential microsequencing oligo 99-148-366.mis2
; US-09-338-907-248
;
; Query Match      82.7%; Score 12.4; DB 4; Length 47;
; Best Local Similarity 92.9%; Pred. No. 4.4e+02;
; Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```


QY 1 TCCATGGTGCTCAC 14
||| |||||
Db 18 TCCCTGGTGCTCAC 31

RESULT 11

US-09-218-207-248
; Sequence 248, Application US/09218207
; Patent No. 6346381
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Ilya, Chumakov
; APPLICANT: Bougueleret, Lydie
; TITLE OF INVENTION: Prostate cancer gene
; FILE REFERENCE: GENSET.018CP1
; CURRENT APPLICATION NUMBER: US/09/218,207
; CURRENT FILING DATE: 1998-12-22
; EARLIER APPLICATION NUMBER: 08/996,306
; EARLIER FILING DATE: 1997-12-22
; EARLIER APPLICATION NUMBER: 60/099,658
; EARLIER FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 578
; SOFTWARE: Patent.pm
; SEQ ID NO 248
; LENGTH: 47
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: allele
; LOCATION: 1..47
; OTHER INFORMATION: polymorphic fragment 99-148-366
; FEATURE:
; NAME/KEY: allele
; LOCATION: 24
; OTHER INFORMATION: polymorphic base G
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 1..23
; OTHER INFORMATION: potential microsequencing oligo 99-148-366.mis1
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 25..47
; OTHER INFORMATION: complement potential microsequencing oligo 99-148-366.mis2

US-09-218-207-248

Query Match 82.7%; Score 12.4; DB 4; Length 47;
Best Local Similarity 92.9%; Pred. No. 4.4e+02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCAC 14
||| |||||
Db 18 TCCCTGGTGCTCAC 31

RESULT 12

US-08-503-730-44/c
; Sequence 44, Application US/08503730
; Patent No. 5780269
; GENERAL INFORMATION:
; APPLICANT: Inouye, Sumiko
; APPLICANT: Inouye, Masayori
; TITLE OF INVENTION: NEW HYBRID MOLECULES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Weiser & Associates
; STREET: 230 South Fifteenth Street Suite 500
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19102
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/503,730
; FILING DATE: 18-JUL-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/817,430
; FILING DATE: 06-JAN-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Weiser, Gerard J.
; REGISTRATION NUMBER: 19,763
; REFERENCE/DOCKET NUMBER: 377(913).6277P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-875-8383
; TELEFAX: 215-875-8394
; INFORMATION FOR SEQ ID NO: 44:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 27 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-503-730-44

Query Match 80.0%; Score 12; DB 1; Length 27;
Best Local Similarity 100.0%; Pred. No. 7.1e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 CCATGGTGCTCA 13
|||||
Db 16 CCATGGTGCTCA 5

RESULT 13

US-08-503-730-29/c
; Sequence 29, Application US/08503730
; Patent No. 5780269
; GENERAL INFORMATION:
; APPLICANT: Inouye, Sumiko
; APPLICANT: Inouye, Masayori
; TITLE OF INVENTION: NEW HYBRID MOLECULES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Weiser & Associates
; STREET: 230 South Fifteenth Street Suite 500
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19102
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/503,730
; FILING DATE: 18-JUL-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/817,430
; FILING DATE: 06-JAN-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Weiser, Gerard J.
; REGISTRATION NUMBER: 19,763
; REFERENCE/DOCKET NUMBER: 377(913).6277P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-875-8383
; TELEFAX: 215-875-8394
; INFORMATION FOR SEQ ID NO: 29:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 53 base pairs
; TYPE: nucleic acid

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; STRANDEDNESS: single
; TOPOLOGY: both
US-08-503-730-29

Query Match      80.0%; Score 12; DB 1; Length 53;
Best Local Similarity 100.0%; Pred. No. 7.3e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 CCATGGTGCTCA 13
   |||||
Db 13 CCATGGTGCTCA 2

RESULT 14
US-08-503-730-30/c
; Sequence 30, Application US/08503730
; Patent No. 5780269
; GENERAL INFORMATION:
; APPLICANT: Inouye, Sumiko
; APPLICANT: Inouye, Masayori
; TITLE OF INVENTION: NEW HYBRID MOLECULES
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Weiser & Associates
; STREET: 230 South Fifteenth Street Suite 500
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19102
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/503,730
; FILING DATE: 18-JUL-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/817,430
; FILING DATE: 06-JAN-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Weiser, Gerard J.
; REGISTRATION NUMBER: 19,763
; REFERENCE/DOCKET NUMBER: 377(913).6277P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-875-8383
; TELEFAX: 215-875-8394
; INFORMATION FOR SEQ ID NO: 30:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 62 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: both
US-08-503-730-30

Query Match      80.0%; Score 12; DB 1; Length 62;
Best Local Similarity 100.0%; Pred. No. 7.3e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 CCATGGTGCTCA 13
   |||||
Db 13 CCATGGTGCTCA 2

RESULT 15
US-08-832-468-6
; Sequence 6, Application US/08832468
; Patent No. 5962237
; GENERAL INFORMATION:
; APPLICANT: Ts'o, Paul O.P.
; APPLICANT: Wang, Zheng-Pin
; APPLICANT: Lesko, Stephen A.
```

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; APPLICANT: Nelson, William G.
; APPLICANT: Partin, Alan W.
; TITLE OF INVENTION: A METHOD OF ENRICHING RARE CELLS
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Leydig, Voit & Mayer, Ltd.
; STREET: 700 Thirteenth St., NW
; CITY: Washington
; STATE: DC
; COUNTRY: US
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/832,468
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60-014929
; FILING DATE: 05-APR-1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jay, Jeremy M.
; REGISTRATION NUMBER: 33587
; REFERENCE/DOCKET NUMBER: 72466
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-737-6770
; TELEFAX: 202-737-6776
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 50 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid (synthetic DNA)
US-08-832-468-6

Query Match      78.7%; Score 11.8; DB 2; Length 50;
Best Local Similarity 86.7%; Pred. No. 9.3e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCACT 15
   |||||
Db 19 TCCATAGTGCTCCCT 33

Search completed: November 21, 2002, 06:53:17
Job time : 69 secs
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GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: November 21, 2002, 06:15:59 ; Search time 83 Seconds
(without alignments)
68.445 Million cell updates/sec

Title: US-09-716-320-3

Perfect score: 15

Sequence: 1 tccatgggtgctcact 15

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 335578 seqs, 189365133 residues

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Minimum DB seq length: 0

Maximum DB seq length: 100

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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- 2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
- 3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
- 4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
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- 11: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
- 12: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:*
- 13: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
- 14: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	12.4	82.7	47	9	US-09-853-526-248
2	12.4	82.7	47	10	US-09-901-484A-248
3	11.8	78.7	64	10	US-09-158-120A-41
4	11.8	78.7	71	10	US-09-783-590-4259
5	11.4	76.0	17	10	US-09-866-108-1434
6	11.4	76.0	17	10	US-09-866-108-1435
7	11.4	76.0	17	10	US-09-866-108-1436
8	11.4	76.0	17	10	US-09-866-108-1437
9	11.4	76.0	17	10	US-09-866-108-1438
10	11.4	76.0	17	10	US-09-866-108-6654
11	11.4	76.0	17	10	US-09-866-108-6655
12	11.4	76.0	17	10	US-09-866-108-6656
13	11.4	76.0	17	10	US-09-866-108-6657
14	11.4	76.0	17	10	US-09-866-108-6658
15	11.4	76.0	17	10	US-09-866-108-8318
16	11.4	76.0	17	10	US-09-866-108-8319
17	11.4	76.0	17	10	US-09-866-108-8320
18	11.4	76.0	17	10	US-09-866-108-8321
19	11.4	76.0	17	10	US-09-866-108-8322

20	11.4	76.0	20	10	US-09-800-629A-190	Sequence 190, App
21	11.4	76.0	25	10	US-09-866-108-4363	Sequence 4363, Ap
22	11.4	76.0	25	10	US-09-866-108-4364	Sequence 4364, Ap
23	11.4	76.0	25	10	US-09-866-108-4365	Sequence 4365, Ap
24	11.4	76.0	25	10	US-09-866-108-4366	Sequence 4366, Ap
25	11.4	76.0	25	10	US-09-866-108-4367	Sequence 4367, Ap
26	11.4	76.0	25	10	US-09-866-108-4368	Sequence 4368, Ap
27	11.4	76.0	25	10	US-09-866-108-4369	Sequence 4369, Ap
28	11.4	76.0	25	10	US-09-866-108-4370	Sequence 4370, Ap
29	11.4	76.0	25	10	US-09-866-108-4371	Sequence 4371, Ap
30	11.4	76.0	25	10	US-09-866-108-4372	Sequence 4372, Ap
31	11.4	76.0	25	10	US-09-866-108-4373	Sequence 4373, Ap
32	11.4	76.0	25	10	US-09-866-108-4374	Sequence 4374, Ap
33	11.4	76.0	25	10	US-09-866-108-4375	Sequence 4375, Ap
34	11.4	76.0	25	10	US-09-866-108-11546	Sequence 11546, A
35	11.4	76.0	25	10	US-09-866-108-11547	Sequence 11547, A
36	11.4	76.0	25	10	US-09-866-108-11548	Sequence 11548, A
37	11.4	76.0	25	10	US-09-866-108-11549	Sequence 11549, A
38	11.4	76.0	25	10	US-09-866-108-11550	Sequence 11550, A
39	11.4	76.0	25	10	US-09-866-108-11551	Sequence 11551, A
40	11.4	76.0	25	10	US-09-866-108-11552	Sequence 11552, A
41	11.4	76.0	25	10	US-09-866-108-11553	Sequence 11553, A
42	11.4	76.0	25	10	US-09-866-108-11554	Sequence 11554, A
43	11.4	76.0	25	10	US-09-866-108-11555	Sequence 11555, A
44	11.4	76.0	25	10	US-09-866-108-11556	Sequence 11556, A
45	11.4	76.0	25	10	US-09-866-108-11557	Sequence 11557, A

ALIGNMENTS

RESULT 1
US-09-853-526-248
; Sequence 248, Application US/09853526
; Patent No. US20020165345A1
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Ilya, Chumakov
; APPLICANT: Bougueleret, Lydie
; TITLE OF INVENTION: PROSTATE CANCER GENE
; FILE REFERENCE: GENSET.18CP1CP
; CURRENT APPLICATION NUMBER: US/09/853,526
; CURRENT FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: 09/338,907
; PRIOR FILING DATE: 1999-06-23
; PRIOR APPLICATION NUMBER: 08/996,306
; PRIOR FILING DATE: 1997-12-22
; PRIOR APPLICATION NUMBER: 60/099,658
; PRIOR FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: 09/218,207
; PRIOR FILING DATE: 1998-12-22
; NUMBER OF SEQ ID NOS: 578
; SOFTWARE: Patent.pm
; SEQ ID NO 248
; LENGTH: 47
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: allele
; LOCATION: 1..47
; OTHER INFORMATION: polymorphic fragment 99-148-366
; NAME/KEY: allele
; LOCATION: 24
; OTHER INFORMATION: polymorphic base G
; NAME/KEY: primer_bind
; LOCATION: 1..23
; OTHER INFORMATION: potential microsequencing oligo 99-148-366.mis1
; NAME/KEY: primer_bind
; LOCATION: 25..47
; OTHER INFORMATION: complement potential microsequencing oligo 99-148-366.mis2
US-09-853-526-248

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Query Match      82.7%; Score 12.4; DB 9; Length 47;
Best Local Similarity 92.9%; Pred. No. 5.1e+02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1  TCCATGGTGCTCAC 14
      ||| |||||
Db      18  TCCCTGGTGCTCAC 31

RESULT 2
US-09-901-484A-248
; Sequence 248, Application US/09901484A
; Patent No. US20020119460A1
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Chumakov, Ilya
; APPLICANT: Bougueleret, Lydie
; TITLE OF INVENTION: Prostate Cancer Gene
; FILE REFERENCE: GEN-T11XC3D2
; CURRENT APPLICATION NUMBER: US/09/901,484A
; CURRENT FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: US 08/996,306
; PRIOR FILING DATE: 1997-12-22
; PRIOR APPLICATION NUMBER: US 60/099,658
; PRIOR FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: US 09/218,207
; PRIOR FILING DATE: 1998-12-22
; PRIOR APPLICATION NUMBER: US 09/338,907
; PRIOR FILING DATE: 1999-06-23
; PRIOR APPLICATION NUMBER: US 09/853,526
; PRIOR FILING DATE: 2001-05-11
; NUMBER OF SEQ ID NOS: 578
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 248
; LENGTH: 47
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: allele
; LOCATION: (1)..(47)
; OTHER INFORMATION: polymorphic fragment 99-148-366
; NAME/KEY: allele
; LOCATION: (24)..(24)
; OTHER INFORMATION: polymorphic base G
; NAME/KEY: primer_bind
; LOCATION: (1)..(23)
; OTHER INFORMATION: potential microsequencing oligo 99-148-366.mis1
; NAME/KEY: primer_bind
; LOCATION: (25)..(47)
; OTHER INFORMATION: complement potential microsequencing oligo 99-148-366.mis2
US-09-901-484A-248

Query Match      82.7%; Score 12.4; DB 10; Length 47;
Best Local Similarity 92.9%; Pred. No. 5.1e+02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1  TCCATGGTGCTCAC 14
      ||| |||||
Db      18  TCCCTGGTGCTCAC 31

RESULT 3
US-09-158-120A-41/c
; Sequence 41, Application US/09158120A
; Patent No. US20020102257A1
; GENERAL INFORMATION:
; APPLICANT: JOHNSON, L.
; TITLE OF INVENTION: Human Murine Chimeric Antibodies Against
; TITLE OF INVENTION: Respiratory Syncytial Virus
; NUMBER OF SEQUENCES: 49
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN, CECCHI,

```

```

; ADDRESSEE: STEWART & OLSTEIN
; STREET: 6 BECKER FARM ROAD
; CITY: ROSELAND
; STATE: NEW JERSEY
; COUNTRY: USA
; ZIP: 07068
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 INCH DISKETTE
; COMPUTER: P160
; OPERATING SYSTEM: Windows95
; SOFTWARE: MS Word 97
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/158,120A
; FILING DATE: September 21, 1998
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290,592
; FILING DATE: August 15, 1994
; APPLICATION NUMBER: 07/813,372
; FILING DATE: December 23, 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Olstein, Elliot M.
; REGISTRATION NUMBER: 24,025
; REFERENCE/DOCKET NUMBER: 469201-367
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 973-994-1700
; TELEFAX: 973-994-1744
; INFORMATION FOR SEQ ID NO: 41:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 64 NUCLEOTIDES
; TYPE: NUCLEIC ACID
; STRANDEDNESS: SINGLE
; TOPOLOGY: LINEAR
; MOLECULE TYPE: Oligonucleotide
US-09-158-120A-41

Query Match      78.7%; Score 11.8; DB 10; Length 64;
Best Local Similarity 86.7%; Pred. No. 1.1e+03;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1  TCCATGGTGCTCACT 15
      ||||| |||||
Db      24  TCCATGGTTGGTCACT 10

RESULT 4
US-09-783-590-4259
; Sequence 4259, Application US/09783590
; Patent No. US20020110850A1
; GENERAL INFORMATION:
; APPLICANT: Dillon, Patrick J.
; APPLICANT: Haseltine, William A.
; APPLICANT: Li, Haodong
; APPLICANT: Rosen, Craig A.
; APPLICANT: Ruben, Steven M.
; TITLE OF INVENTION: Human Genes, Sequences, and Expression Products 16.2
; FILE REFERENCE: PO-16.2C1
; CURRENT APPLICATION NUMBER: US/09/783,590
; CURRENT FILING DATE: 2000-02-15
; PRIOR APPLICATION NUMBER: 08/420,856
; PRIOR FILING DATE: 1995-04-12
; PRIOR APPLICATION NUMBER: 08/346,731
; PRIOR FILING DATE: 1994-11-21
; NUMBER OF SEQ ID NOS: 12485
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4259
; LENGTH: 71
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (6)
; OTHER INFORMATION: n equals a,t,g, or c

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Db 16 CCATTGTGCTCAC 4

RESULT 7

US-09-866-108-1436/c
; Sequence 1436, Application US/09866108
; Patent No. US20020048800A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 60/266,860
; PRIOR FILING DATE: 2001-02-05
; NUMBER OF SEQ ID NOS: 15752
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 1436
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108-1436

Query Match 76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 CCATGGTGCTCAC 14
|||||
Db 15 CCATTGTGCTCAC 3

RESULT 8

US-09-866-108-1437/c
; Sequence 1437, Application US/09866108
; Patent No. US20020048800A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang

; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 60/266,860
; PRIOR FILING DATE: 2001-02-05
; NUMBER OF SEQ ID NOS: 15752
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 1437
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108-1437

Query Match 76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 CCATGGTGCTCAC 14
|||||
Db 14 CCATTGTGCTCAC 2

RESULT 9

US-09-866-108-1438/c
; Sequence 1438, Application US/09866108
; Patent No. US20020048800A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456

; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 60/266,860
; PRIOR FILING DATE: 2001-02-05
; NUMBER OF SEQ ID NOS: 15752
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 1438
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108-1438

Query Match 76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 CCATGGTGCTCAC 14
|||||
Db 13 CCATTGTGCTCAC 1

RESULT 10
US-09-866-108-6654
; Sequence 6654, Application US/09866108
; Patent No. US2002004800A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664

; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 60/266,860
; PRIOR FILING DATE: 2001-02-05
; NUMBER OF SEQ ID NOS: 15752
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 6654
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108-6654

Query Match 76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CATGGTGCTCACT 15
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Db 5 CATGGGGCTCACT 17

RESULT 11
US-09-866-108-6655
; Sequence 6655, Application US/09866108
; Patent No. US2002004800A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662

QY 3 CATGGTGCTCACT 15
||||| |||||
Db 2 CATGGGGCTCACT 14

RESULT 14

US-09-866-108-6658

; Sequence 6658, Application US/09866108
; Patent No. US20020048800A1

; GENERAL INFORMATION:

; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark

; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7

; CURRENT APPLICATION NUMBER: US/09/866,108

; CURRENT FILING DATE: 2001-05-25

; PRIOR APPLICATION NUMBER: US 60/207,456

; PRIOR FILING DATE: 2000-05-26

; PRIOR APPLICATION NUMBER: GB 24263.6

; PRIOR FILING DATE: 2000-10-04

; PRIOR APPLICATION NUMBER: US 60/236,359

; PRIOR FILING DATE: 2000-09-27

; PRIOR APPLICATION NUMBER: PCT/US01/006666

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/006667

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/006664

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/006669

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/006665

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/006668

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/006663

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/006662

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/006661

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/006670

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: US 60/234,687

; PRIOR FILING DATE: 2000-09-21

; PRIOR APPLICATION NUMBER: US 60/266,860

; PRIOR FILING DATE: 2001-02-05

; NUMBER OF SEQ ID NOS: 15752

; SOFTWARE: Aeomica Sequence Listing Engine

; SEQ ID NO 6658

; LENGTH: 17

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-866-108-6658

Query Match 76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CATGGTGCTCACT 15
||||| |||||
Db 1 CATGGGGCTCACT 13

RESULT 15

US-09-866-108-8318/c

; Sequence 8318, Application US/09866108

; Patent No. US20020048800A1

; GENERAL INFORMATION:

; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark

; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7

; CURRENT APPLICATION NUMBER: US/09/866,108

; CURRENT FILING DATE: 2001-05-25

; PRIOR APPLICATION NUMBER: US 60/207,456

; PRIOR FILING DATE: 2000-05-26

; PRIOR APPLICATION NUMBER: GB 24263.6

; PRIOR FILING DATE: 2000-10-04

; PRIOR APPLICATION NUMBER: US 60/236,359

; PRIOR FILING DATE: 2000-09-27

; PRIOR APPLICATION NUMBER: PCT/US01/006666

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/006667

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/006664

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/006669

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/006665

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; PRIOR APPLICATION NUMBER: PCT/US01/006668

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/006663

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/006662

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/006661

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/006670

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: US 60/234,687

; PRIOR FILING DATE: 2000-09-21

; PRIOR APPLICATION NUMBER: US 60/266,860

; PRIOR FILING DATE: 2001-02-05

; NUMBER OF SEQ ID NOS: 15752

; SOFTWARE: Aeomica Sequence Listing Engine

; SEQ ID NO 8318

; LENGTH: 17

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-866-108-8318

Query Match 76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCA 13
||||| |||||
Db 17 TCCATGGTGCCCCA 5

Search completed: November 21, 2002, 07:59:02
Job time : 83 secs

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OM nucleic - nucleic search, using sw model

Run On: November 21, 2002, 03:45:54 ; Search time 3161 Seconds
(without alignments)
138.103 Million cell updates/sec

Title: US-09-716-320-3
Perfect score: 15
Sequence: 1 tccatggtgctcact 15

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2054640 seqs, 14551402878 residues

Total number of hits satisfying chosen parameters: 995600

Minimum DB seq length: 0
Maximum DB seq length: 100

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : GenEmbl:

- 1: gb_ba:*
- 2: gb_htg:*
- 3: gb_in:*
- 4: gb_om:*
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- 8: gb_pl:*
- 9: gb_pr:*
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- 11: gb_sts:*
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- 31: em_htg_inv:*
- 32: em_htg_other:*
- 33: em_htg_mus:*
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- 35: em_htg_rod:*
- 36: em_htg_mam:*
- 37: em_htg_vrt:*
- 38: em_sy:*
- 39: em_htgo_hum:*
- 40: em_htgo_mus:*
- 41: em_htgo_other:*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	15	100.0	19	6	AX103821	AX103821 Sequence
2	15	100.0	19	6	AX355038	AX355038 Sequence
3	15	100.0	24	6	I34918	I34918 Sequence 4
4	14	93.3	15	6	AR071406	AR071406 Sequence
5	14	93.3	51	6	AX159179	AX159179 Sequence
6	13	86.7	14	6	A45228	A45228 Sequence 10
7	13	86.7	14	6	A88989	A88989 Sequence 11
8	13	86.7	14	6	AR202871	AR202871 Sequence
9	13	86.7	16	6	A88177	A88177 Sequence 32
10	13	86.7	16	6	A90144	A90144 Sequence 32
11	13	86.7	20	6	AR137074	AR137074 Sequence
12	13	86.7	20	6	AX164704	AX164704 Sequence
13	13	86.7	26	6	AR122156	AR122156 Sequence
14	13	86.7	26	6	AR142598	AR142598 Sequence
15	12.4	82.7	22	6	AR054584	AR054584 Sequence
16	12.4	82.7	24	6	AX428032	AX428032 Sequence
17	12.4	82.7	50	6	AX161043	AX161043 Sequence
18	12.4	82.7	51	6	AX159180	AX159180 Sequence
19	12.4	82.7	51	6	AX161039	AX161039 Sequence
20	12.4	82.7	51	6	AX161040	AX161040 Sequence
21	12.4	82.7	51	6	AX161041	AX161041 Sequence
22	12.4	82.7	98	6	AX385593	AX385593 Sequence
23	12	80.0	22	6	E15265	E15265 Primer. 7/1
24	12	80.0	27	6	AR017897	AR017897 Sequence
25	12	80.0	53	6	AR017882	AR017882 Sequence
26	12	80.0	62	6	AR017883	AR017883 Sequence
27	12	80.0	97	6	E15263	E15263 Chlamydomon
28	11.8	78.7	19	6	AX375647	AX375647 Sequence
29	11.8	78.7	50	6	AR077265	AR077265 Sequence
30	11.8	78.7	50	6	AX199506	AX199506 Sequence
31	11.8	78.7	51	6	AX199505	AX199505 Sequence
32	11.8	78.7	54	6	AR188935	AR188935 Sequence
33	11.8	78.7	64	6	AR048884	AR048884 Sequence
34	11.8	78.7	72	9	AF159095	AF159095 Homo sapi
35	11.8	78.7	76	6	AX389427	AX389427 Sequence
36	11.8	78.7	93	9	AF172205	AF172205 Nycticebu
37	11.8	78.7	93	9	AF172208	AF172208 Eulemur m
38	11.8	78.7	93	9	AF172209	AF172209 Perodicti
39	11.8	78.7	96	3	CELE11937	AJ011937 Caenorhab
40	11.8	78.7	100	6	AR048314	AR048314 Sequence
41	11.8	78.7	100	6	AR097085	AR097085 Sequence
42	11.8	78.7	100	6	AR130583	AR130583 Sequence
43	11.8	78.7	100	6	AR171932	AR171932 Sequence
44	11.4	76.0	15	6	AR180130	AR180130 Sequence
45	11.4	76.0	20	6	AR136387	AR136387 Sequence

ALIGNMENTS

RESULT 1	AX103821	AX103821	19 bp	DNA	linear	PAT 30-APR-2001
LOCUS	Sequence 13 from Patent WO0122972					
DEFINITION	AX103821					
ACCESSION	AX103821.1	GI:13920018				
VERSION						
KEYWORDS						
SOURCE						
ORGANISM						
REFERENCE						
AUTHORS						
TITLE						
JOURNAL						

Priority Date
12/30/96

FEATURES GmbH (DE) Location/Qualifiers
source
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/organism="synthetic construct"
/db_xref="taxon:32630"
5 g 5 t

BASE COUNT 3 a 6 c 5 g 5 t
ORIGIN

Query Match 100.0%; Score 15; DB 6; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCACT 15
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Db 4 TCCATGGTGCTCACT 18

RESULT 2
LOCUS AX355038 19 bp DNA linear PAT 06-FEB-2002
DEFINITION Sequence 66 from Patent WO0197843.
ACCESSION AX355038
VERSION AX355038.1 GI:18619705
KEYWORDS synthetic construct.
SOURCE synthetic construct
ORGANISM artificial sequences.

REFERENCE 1
AUTHORS Weiner, G. and Hartmann, G.
TITLE Methods for enhancing antibody-induced cell lysis and treating cancer
JOURNAL Patent: WO 0197843-A 66 27-DEC-2001;
UNIVERSITY OF IOWA RESEARCH FOUNDATION (US)
FEATURES Location/Qualifiers
source
1. .19
/organism="synthetic construct"
/db_xref="taxon:32630"
/note="Synthetic oligonucleotide-phosphorothioate backbone"
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BASE COUNT 3 a 6 c 5 g 5 t
ORIGIN

Query Match 100.0%; Score 15; DB 6; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCACT 15
|||||
Db 4 TCCATGGTGCTCACT 18

RESULT 3
LOCUS I34918 24 bp DNA linear PAT 13-MAY-1997
DEFINITION Sequence 4 from patent US 5599704.
ACCESSION I34918
VERSION I34918.1 GI:2087886
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 24)
AUTHORS Thompson, J.D. and Draper, K.G.
TITLE ErbB2/neu targeted fibrozymes
JOURNAL Patent: US 5599704-A 4 04-FEB-1997;
FEATURES Location/Qualifiers
source
1. .24
/organism="unknown"
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BASE COUNT 6 a 7 c 8 g 3 t
ORIGIN

Query Match 100.0%; Score 15; DB 6; Length 24;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCACT 15
|||||
Db 21 TCCATGGTGCTCACT 7

RESULT 4
LOCUS AR071406 15 bp DNA linear PAT 18-FEB-2000
DEFINITION Sequence 1 from patent US 5910583.
ACCESSION AR071406
VERSION AR071406.1 GI:7222294
KEYWORDS unknown.
SOURCE unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 15)
AUTHORS Marks, J.R., Vaughn, J.P. and Inglehart, J.D.
TITLE Antisense oligonucleotides against ERBB-2
JOURNAL Patent: US 5910583-A 1 08-JUN-1999;
FEATURES Location/Qualifiers
source
1. .15
/organism="unknown"
2 a 6 c 3 g 4 t

Query Match 93.3%; Score 14; DB 6; Length 15;
Best Local Similarity 100.0%; Pred. No. 7.1e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGTGCTCAC 14
|||||
Db 2 TCCATGGTGCTCAC 15

RESULT 5
LOCUS AX159179 51 bp DNA linear PAT 22-JUN-2001
DEFINITION Sequence 2507 from Patent WO0140521.
ACCESSION AX159179
VERSION AX159179.1 GI:14540510
KEYWORDS human.
SOURCE Homo sapiens
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 51)
AUTHORS Shimkets, R.A. and Leach, M.
TITLE Nucleic acids containing single nucleotide polymorphisms and methods of use thereof
JOURNAL Patent: WO 0140521-A 2507 07-JUN-2001;
Curagen Corporation (US)
FEATURES Location/Qualifiers
source
1. .51
/organism="Homo sapiens"
/db_xref="taxon:9606"
misc_feature 26
/note="1 of 2 allelic variants (2508 is other entry)
Accession number CG39714236"
7 a 14 c 15 g 15 t

BASE COUNT 7 a 14 c 15 g 15 t
ORIGIN

Query Match 93.3%; Score 14; DB 6; Length 51;
Best Local Similarity 100.0%; Pred. No. 7.4e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 CCATGGTGCTCACT 15
|||||
Db 17 CCATGGTGCTCACT 30

RESULT 6

PAT 07-MAR-1997

A45228
LOCUS A45228 14 bp DNA linear
DEFINITION Sequence 105 from Patent WO9517507.
ACCESSION A45228
VERSION A45228.1 GI:2299723
KEYWORDS
SOURCE
ORGANISM
REFERENCE 1 (bases 1 to 14)
AUTHORS Brysch,W., Schlingensiepen,K., Schlingensiepen,R. and
TITLE ANTISENSE NUCLEIC ACIDS FOR THE PREVENTION AND TREATMENT OF
JOURNAL DISORDERS IN WHICH EXPRESSION OF C-erbB PLAYS A ROLE
COMMENT Patent: WO 9517507-A 105 29-JUN-1995;
FEATURES BIOGNOSTIK GES (DE)
Other publication AU 1313095 950710.
source Location/Qualifiers
1. .14
/organism="unidentified"
/db_xref="taxon:32644"
BASE COUNT 2 a 4 c 4 g 4 t
ORIGIN

Query Match 86.7%; Score 13; DB 6; Length 14;
Best Local Similarity 100.0%; Pred. No. 3.3e+03;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3 CATGGTGCTCACT 15
Db 1 CATGGTGCTCACT 13

RESULT 7
A88989
LOCUS A88989 14 bp DNA linear PAT 22-JAN-2000
DEFINITION Sequence 1137 from Patent WO9833904.
ACCESSION A88989
VERSION A88989.1 GI:6737559
KEYWORDS
SOURCE
ORGANISM

REFERENCE 1 (bases 1 to 14)
AUTHORS Brysch,W. and Schlingensiepen,K.
TITLE AN ANTISENSE OLIGONUCLEOTIDE PREPARATION METHOD
JOURNAL Patent: WO 9833904-A 1137 06-AUG-1998;
FEATURES BIOGNOSTIK GES (DE); BRYSCH,WOLFGANG (DE)
source Location/Qualifiers
1. .14
/organism="unidentified"
/db_xref="taxon:32644"
BASE COUNT 2 a 4 c 4 g 4 t
ORIGIN

Query Match 86.7%; Score 13; DB 6; Length 14;
Best Local Similarity 100.0%; Pred. No. 3.3e+03;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3 CATGGTGCTCACT 15
Db 1 CATGGTGCTCACT 13

RESULT 8
AR202871
LOCUS AR202871 14 bp DNA linear PAT 20-JUN-2002
DEFINITION Sequence 105 from patent
ACCESSION AR202871
VERSION AR202871.1 GI:21499111
KEYWORDS
SOURCE Unknown.
ORGANISM

14 bp DNA
US 6365345.

[Handwritten signature]

Unclassified.
1 (bases 1 to 14)
Brysch,W., Schlingensiepen,K.-H., Schlingensiepen,R. and
Schlingensiepen,G.-F.
TITLE Antisense nucleic acids for the prevention and treatment of
disorders in which expression of c-erbB plays a role
JOURNAL Patent: US 6365345-A 105 02-APR-2002;
FEATURES Location/Qualifiers
source 1. .14
BASE COUNT 2 a 4 c 4 g 4 t
ORIGIN

Query Match 86.7%; Score 13; DB 6; Length 14;
Best Local Similarity 100.0%; Pred. No. 3.3e+03;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3 CATGGTGCTCACT 15
Db 1 CATGGTGCTCACT 13

RESULT 9
A88177
LOCUS A88177 16 bp DNA linear PAT 22-JAN-2000
DEFINITION Sequence 325 from Patent WO9833904.
ACCESSION A88177
VERSION A88177.1 GI:6736747
KEYWORDS
SOURCE
ORGANISM

REFERENCE 1 (bases 1 to 16)
AUTHORS Brysch,W. and Schlingensiepen,K.
TITLE AN ANTISENSE OLIGONUCLEOTIDE PREPARATION METHOD
JOURNAL Patent: WO 9833904-A 325 06-AUG-1998;
FEATURES BIOGNOSTIK GES (DE); BRYSCH,WOLFGANG (DE)
source Location/Qualifiers
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Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3 CATGGTGCTCACT 15
Db 1 CATGGTGCTCACT 13

RESULT 10
A90144
LOCUS A90144 16 bp DNA linear PAT 22-JAN-2000
DEFINITION Sequence 325 from Patent EP0856579.
ACCESSION A90144
VERSION A90144.1 GI:6738658
KEYWORDS
SOURCE
ORGANISM

REFERENCE 1 (bases 1 to 16)
AUTHORS Brysch,W.D. and Schlingensiepen,K.D.
TITLE An antisense oligonucleotide preparation method
JOURNAL Patent: EP 0856579-A 325 05-AUG-1998;
FEATURES BIOGNOSTIK GES (DE)
source Location/Qualifiers
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LOCUS AR137074 linear PAT 16-JUN-2001

DEFINITION Sequence 3 from patent US 6162965;
ACCESSION AR137074
VERSION AR137074.1 GI:14478324

KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 20)
AUTHORS Hansen G.
TITLE Plant transformation methods
JOURNAL Patent: US 6162965-A 3 19-DEC-2000;
FEATURES Location/Qualifiers
source 1. .20
/organism="unknown"
BASE COUNT 4 a 4 c 7 g 5 t
ORIGIN

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RESULT 12
AX164704/c

LOCUS AX164704 linear PAT 22-JUN-2001

DEFINITION Sequence 9 from Patent WO0136644.
ACCESSION AX164704
VERSION AX164704.1 GI:14545596

KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct
REFERENCE 1 (bases 1 to 20)
AUTHORS Rastelli, L., Lewin, D., Tallon, B. and Andrew, D.P.
TITLE Wnt-regulated cytokine-like polypeptide and nucleic acids encoding same
JOURNAL Patent: WO 0136644-A 9 25-MAY-2001;
Curagen Corporation (US)

FEATURES Location/Qualifiers
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RESULT 13
AR122156

LOCUS AR122156 linear PAT 16-MAY-2001

DEFINITION Sequence 18 from patent US 6165712.
ACCESSION AR122156
VERSION AR122156.1 GI:14106473

KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 26)
AUTHORS Foulkes, J. Gordon., Leichtfried, F. E., Pieler, C., Stephenson, J. R. and Case, C. C.

TITLE Methods of transcriptionally modulating expression of viral genes and genes useful for production of proteins
JOURNAL Patent: US 6165712-A 18 26-DEC-2000;
FEATURES Location/Qualifiers
source 1. .26
/organism="unknown"
BASE COUNT 2 a 11 c 8 g 5 t
ORIGIN

RESULT 14
AR142598

LOCUS AR142598 linear PAT 08-AUG-2001

DEFINITION Sequence 6 from patent US 6203976.
ACCESSION AR142598
VERSION AR142598.1 GI:15103884

KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 26)
AUTHORS Foulkes, J. Gordon., Leichtfried, F. E., Pieler, C. and Stephenson, J. R.
TITLE Methods of preparing compositions comprising chemicals capable of transcriptional modulation
JOURNAL Patent: US 6203976-A 6 20-MAR-2001;
FEATURES Location/Qualifiers
source 1. .26
/organism="unknown"
BASE COUNT 2 a 11 c 8 g 5 t
ORIGIN

RESULT 15
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LOCUS AR054584 linear PAT 29-SEP-1999

DEFINITION Sequence 5 from patent US 5837447.
ACCESSION AR054584
VERSION AR054584.1 GI:5980161

KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 22)
AUTHORS Gorski, J.

TITLE
Monitoring an immune response by analysis of amplified immunoglobulin or T-cell-receptor nucleic acid

JOURNAL
Patent: US 5837447-A 5 17-NOV-1998;

FEATURES	Location/Qualifiers
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Matches	13;	Conservative	0;	Mismatches	1;	Indels	0;	Gaps	0;
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Db 21 TCCAAGGTGCTCAC 8

Search completed: November 21, 2002, 06:15:54

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9, 203, 976

1957/7/20

1995

9-10-15

77

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11-15-19

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5-1-15
J. J. J.

3

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